

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 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](mailto: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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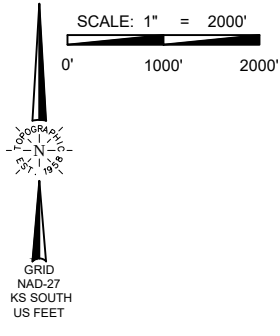


**FINAL AS-DRILLED PLAT**  
 SCHOOLEY 4-35-11 2H  
 BCE MACH III LLC  
 SECTION 33, TOWNSHIP 34S, RANGE 11W, 6TH P.M.  
 BARBER COUNTY, KANSAS



**LEGEND**

- SECTION LINE
- TOWNSHIP LINE
- QUARTER SECTION LINE
- 16TH LINE
- WELL BORE

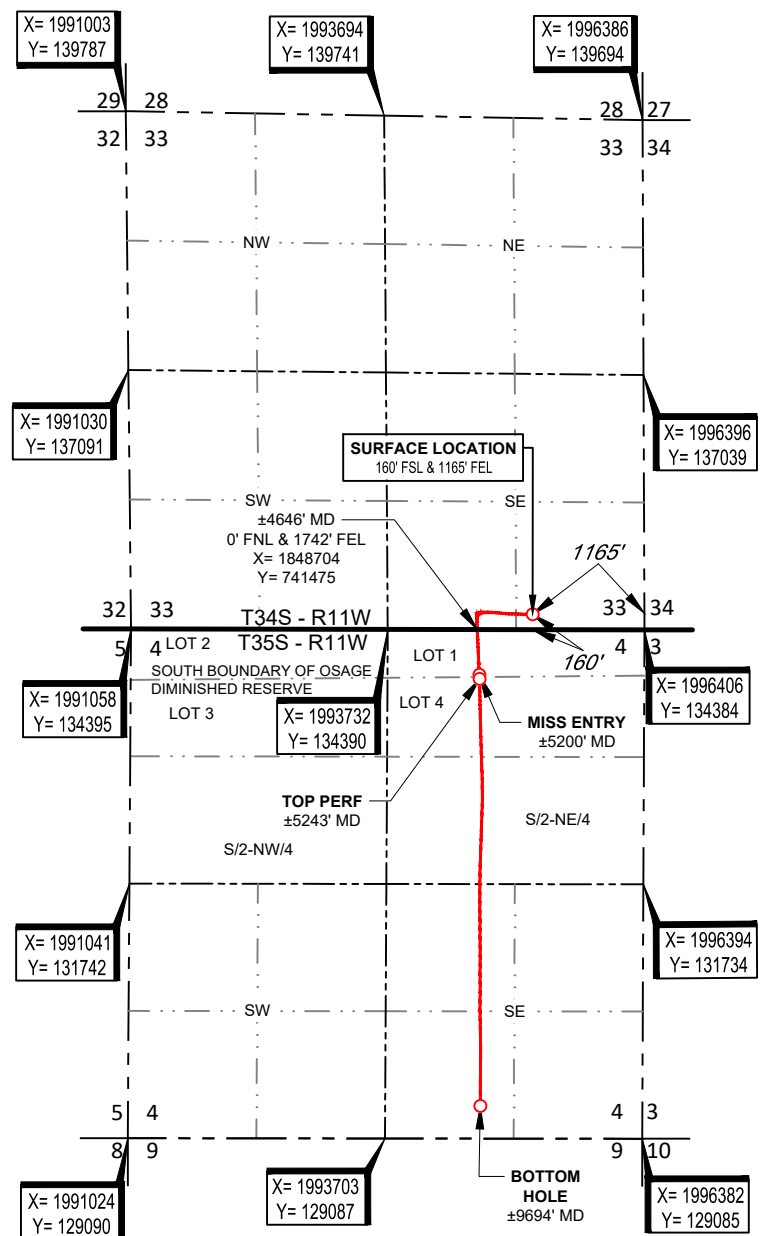


**SURFACE LOCATION**  
 160' FSL & 1165' FEL  
 NAD-27  
 X= 1995240  
 Y= 134547  
 LAT.: 37°02'10.2" N  
 LONG.: 98°30'58.7" W  
 LAT.: 37.036176° N  
 LONG.: 98.516306° W  
 ELEV.: 1388'

**MISS ENTRY**  
 472' FNL & 1718' FEL-SEC. 4  
 MD: ±5200'  
 NAD-27  
 X= 1994685  
 Y= 133916  
 LAT.: 37°02'04.0" N  
 LONG.: 98°31'05.5" W  
 LAT.: 37.034443° N  
 LONG.: 98.518205° W

**TOP PERF**  
 515' FNL & 1716' FEL-SEC. 4  
 MD: ±5243'  
 NAD-27  
 X= 1994687  
 Y= 133873  
 LAT.: 37°02'03.6" N  
 LONG.: 98°31'05.5" W  
 LAT.: 37.034326° N  
 LONG.: 98.518200° W

**TD / BOTTOM PERF**  
 339' FSL & 1689' FEL-SEC. 4  
 MD: ±9694'  
 NAD-27  
 X= 1994695  
 Y= 129425  
 LAT.: 37°01'19.6" N  
 LONG.: 98°31'05.4" W  
 LAT.: 37.022110° N  
 LONG.: 98.518169° W



*Stan W. Lloyd*  
 Stan W. Lloyd, P.L.S. No. 827  
 Authorized Agent of Topographic, Co.

**SURVEYOR'S CERTIFICATE:**  
 I, STAN W. LLOYD, A KANSAS LICENSED LAND SURVEYOR AND AN AUTHORIZED AGENT OF TOPOGRAPHIC, CO., DO HEREBY CERTIFY TO THE INFORMATION SHOWN HEREIN.

**TOPOGRAPHIC**  
 LOYALTY INNOVATION LEGACY  
 1900 NORTHWEST EXPY, Ste. 1500 • OKLAHOMA CITY, OKLAHOMA 73118  
 TELEPHONE: (405) 843-4847 OR (800) 654-3219  
 FAX: (405) 843-0975  
 CERTIFICATE OF AUTHORIZATION NO. LS-318  
 WWW.TOPOGRAPHIC.COM

LEASE NAME & WELL NO. SCHOOLEY 4-35-11 2H  
 SECTION 33 TWP 34S RGE 11W MERIDIAN 6TH P.M.  
 COUNTY BARBER STATE KANSAS  
 DESCRIPTION 160' FSL & 1165' FEL

SCHOOLEY 4-35-11 2H	REVISION:	
	INT	DATE
DATE: 02/22/2024		
FILE: AD_SCHOOLEY_4-35-11_2H		
DRAWN BY: JPH		
SHEET: 1 OF 1		

- NOTES:**
- ORIGINAL DOCUMENT SIZE: 8.5" X 14"
  - ALL BEARINGS SHOWN HEREON ARE GRID ACCORDING TO THE RESULTS OF STATIC GPS OBSERVATIONS PROCESSED THROUGH OPUS ON THE CONTROL POINT OCCUPIED WHILE MEASURING SAID LINES. OPUS RESULTS ARE CORRELATED TO KANSAS, SOUTH ZONE, NAD 27 - HORIZONTAL AND THE NATIONAL GEODETIC VERTICAL DATUM OF 1929.
  - CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT/LOCATION, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY BCE MACH III LLC. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT/LOCATION, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.
  - LANDING POINT, BOTTOM HOLE, AND DRILL PATH INFORMATION PROVIDED BY OPERATOR AS SHOWN AND ARE NOT SURVEYED LOCATIONS.
  - THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

BCE-Mach III LLC  
 Schooley 4-35-11 2H  
 Barber  
 1/20/2024  
 Surface

Ticket # P-6484



COMPANY <b>BCE-Mach III LLC</b>	PROJECT NUMBER <b>P-6484</b>	AFE/WORK ORDER	DATE <b>1/20/2024</b>
CONTRACTOR <b>Spinnaker Oil</b>	Owner <b>Same</b>	LEGAL DESCRIPTION <b>Sec 09, T35S, R11W</b>	API <b>15-007-24491</b>
LEASE & WELL # <b>Schooley 4-35-11 2H</b>	COUNTY <b>Barber</b>	STATE <b>OK</b>	MILEAGE <b>280</b>

From Kiowa, KS - Head West on KS-2/Main Street for 1.7 miles. Turn North onto Red Dust Road for 1.0 miles. North into Atlas 3

Pumping Services	<input checked="" type="checkbox"/> Surface	<input type="checkbox"/> Intermediate	<input type="checkbox"/> Long String	<input type="checkbox"/> Plug Back			
	<input type="checkbox"/> Squeeze	<input type="checkbox"/> Acid	<input type="checkbox"/> PTA	<input type="checkbox"/> Other			
	Casing Size <b>9 5/8</b>	Casing Weight <b>36.00</b>	Thread <b>LTC</b>	Csng Grade <b>J-55</b>			
	Thread <b>LTC</b>	Plug. Cont. <b>Yes</b>	Swage <b>Yes</b>	Top Plug <b>Yes</b>			
Number and Type Units <b>Pump Truck, 3 ea. 660 Bulk Truck</b>				BHST - F <b>83</b>	Casing Depth <b>300</b>	Bottom Plug <b>N/A</b>	% Excess <b>225%</b>
Remarks <b>9 5/8" Top Plug, Head, 200 lbs Sugar</b>				BHCT - F <b>80</b>	Previous Csq <b>Conductor</b>	Depth - MD - FT <b>300</b>	Hole Size - Inches <b>12 1/4</b>
						Mud Weight/Type - PPG	

Materials	<b>Spacer</b>	Qty - BBLs <b>40</b>	Type <b>H2O</b>	<b>SPACER:</b>	<b>H2O</b>
	<b>BBL OF LEAD</b>	# of Sacks <b>95</b>	Type <b>Class A</b>	<b>LEAD CEMENT</b>	<b>95 Sacks Class A, 3% Gypsum, 1% SMS, 2.5% Calcium Chloride, 0.25 lb/sk Poly</b>
	<b>H2O REQUIRED</b>	Weight PPG <b>11.40</b>	Yield Ft3/Sk <b>2.95</b>	Water Gal/S <b>18.16</b>	
	<b>BBL OF TAIL</b>	# of Sacks <b>65</b>	Type <b>Class A</b>	<b>TAIL CEMENT</b>	
	<b>H2O REQUIRED</b>	Weight PPG <b>13.20</b>	Yield Ft3/Sk <b>1.86</b>	Water Gal/S <b>9.98</b>	<b>65 Sacks Class A, 3% Gypsum, 1% SMS, 2.5% Calcium Chloride, 0.25 lb/sk Poly</b>
	<b>Displacement</b>	Qty - BBLs <b>22</b>	Type <b>H2O</b>	<b>DISPLACEMENT</b>	<b>H2O</b>
	<b>BBL OF TAIL</b>	# of Sacks <b>242</b>	Type <b>Class A</b>	<b>TOP OUT</b>	<b>100sk of Class A</b>
	<b>H2O REQUIRED</b>	Weight PPG <b>14.80</b>	Yield Ft3/Sk <b>1.32</b>	Water Gal/S <b>6.30</b>	

Notes:

**SINGLE Variable Density Slurry. Please go by bbl counter for the lead. All Cement in front pot**  
**Lead - 6 hrs; Tail - 2.5 hrs**

**\*\*Make sure your H2S monitor is charged and bump tested\*\***

Sales Items	Casing Size <b>9 5/8</b>	Casing Weight <b>36.00</b>	Thread <b>LTC</b>
	Guide Shoe	Float Shoe	Float Collar Insert Float Valve
	Centralizers - Number	Size	Type
	Wall Cleaners - Number	Type	MSC (DV Tool) MSC Plug Set
	Limit Clamps	Thread lock	Other
	Remarks	<b>300 lbs Sugar, CC for prime up if needed</b>	

**BCE-Mach III LLC**  
**Schooley 4-35-11 2H**  
**Barber**  
**1/20/2024**  
**Surface**

**Ticket # P-6484**



**Customer:** BCE-Mach III LLC  
**Well Name:** Schooley 4-35-11 2H  
**County:** Barber  
**State:** Kansas  
**API #:** 15-007-24491  
**Legals:** Sec. 9-T35S-R11W

**Customer Rep:**  
**Mobile:**  
**Job Type:** Surface  
**Casing:** 9 5/8  
**Field Supervisor:** BRENNAN SEAMAN  
**Date:** 1/20/2024  
**Proposal #:** 47130001

Ref. #	Description	Quantity	Unit Price	Sub Total	Disc Unit Price	Total
<b>***** Cementing Services *****</b>						
MLPU1	Pickup Mileage 1 unit (roundtrip miles)	280	\$3.94	\$1,103.20	\$1.89	\$529.20
MLHE4	Heavy Vehicle Mileage 4 units (roundtrip miles)	280	\$27.12	\$7,593.60	\$13.02	\$3,645.60
MLTN	Bulk Cement Delivery/Return (per Ton-Mile)	3,099	\$2.73	\$8,460.27	\$1.31	\$4,059.69
MXBK	Bulk Material Mixing Service Charge (Per cu.ft.)	502	\$3.03	\$1,521.06	\$1.45	\$727.90
CMTHD	Cement Head with manifold (per Job)	1	\$1,895.00	\$1,895.00	\$909.60	\$909.60
PC1K	Pump Charge 0-1000' (Per 4 hrs)	1	\$1,887.60	\$1,887.60	\$906.05	\$906.05
DAQ	Data Acquisition System	1	\$1,331.00	\$1,331.00	\$638.88	\$638.88
FLSCG	Fuel Surcharge (per unit/per job)	4	\$605.00	\$2,420.00	\$290.40	\$1,161.60
ENVFEE	Environmental Fee	1	\$211.75	\$211.75	\$101.64	\$101.64
DAMSS	Data Monitoring System/Supervisor	1	\$800.00	\$800.00	\$384.00	\$384.00
CIRON	Circulation Equipment (40' of equipment per job)	2	\$1,512.50	\$3,025.00	\$726.00	\$1,452.00
<b>***** Cementing Materials *****</b>						
CSTD	Class A Type Standard Cement (per sack)	160	\$31.81	\$5,089.60	\$15.27	\$2,443.20
CEXTGYP	Gypsum (per lb)	452	\$0.54	\$244.08	\$0.26	\$117.52
CACCSMS	SMS (per lb)	151	\$3.86	\$582.86	\$1.85	\$279.35
CACCCC	Calcium Chloride (per lb)	376	\$1.45	\$545.20	\$0.70	\$263.20
CLCMPF	Poly Flake (per lb)	40	\$3.23	\$129.20	\$1.55	\$62.00
<b>***** TOP OUT *****</b>						
CSTD	Class A Type Standard Cement (per sack)	242	\$31.81	\$7,698.02	\$15.27	\$3,695.34
TOCMT	Top Out Cement Job charge (Per 2 hrs)	2	\$1,975.00	\$3,950.00	\$1,975.00	\$3,950.00
TOPIPE	1" Pipe for Top-Out (per ft)	100	\$4.95	\$495.00	\$4.95	\$495.00
HNDL	Handling Tools (per job)	2	\$135.00	\$270.00	\$135.00	\$270.00
<b>Additional Items (As Required)</b>						
PCADD	Primary Pump Unit Addl Hours	10.0	\$594.50	\$5,945.00	\$594.50	\$5,945.00
BKADD	Bulk Unit Additional Hours (per unit/per hour)	10.0	\$121.00	\$1,210.00	\$121.00	\$1,210.00
VALV12	1" to 2" valves	1	\$393.25	\$393.25	\$188.76	\$188.76
SG36	Swage, 4 1/2" - 13 3/8" (per day)	1	\$423.50	\$423.50	\$203.28	\$203.28
H2SMON	H2S/Gas Monitors (per job)	1	\$135.00	\$135.00	\$64.80	\$64.80
FTRP958	9 5/8" Top Rubber Plug	0	\$220.00	\$0.00	\$220.00	\$0.00
CSUGAR	Sugar (per lb)	200	\$1.47	\$294.00	\$1.47	\$294.00
CFDIAL	ATF Cement Defoamer (per gal)	40	\$29.50	\$1,180.00	\$29.50	\$1,180.00
DERKC	Derrick Charge (Cement Head Stabbing Above 8 ft)	0	\$726.00	\$0.00	\$726.00	\$0.00
WTCMT	Waiting on Cement Head after job (per hours)	0	\$95.00	\$0.00	\$95.00	\$0.00
CACCCC	Calcium Chloride (per lb)	700	\$1.45	\$1,015.00	\$0.70	\$490.00
	Book Price			\$59,848.19		
	<b>Estimated Job Cost (Exclusive of Sales Tax)</b>					<b>\$35,667.61</b>

Signature: *Brens*  
 Field Supervisor: **BRENNAN SEAMAN**

Signature: \_\_\_\_\_  
 Customer Rep: \_\_\_\_\_

AFE # OC 23120  
 WELL NAME Schooley 4-35-11 2H  
 COST CODE 2050 2800  
 AMOUNT \$35,667.61  
 DATE 1-20-24  
Jim M...

BCE-Mach III LLC  
 Schooley 4-35-11 2H  
 Barber  
 1/19/2024  
 Surface

Ticket # P-6484



COMPANY <b>BCE-Mach III LLC</b>		PROJECT NUMBER <b>P-6484</b>	CUSTOMER REP:	DATE <b>1/19/2024</b>
CONTRACTOR <b>Spinnaker Oil</b>	Owner <b>Same</b>	LEGAL DESCRIPTION <b>Sec 09, T35S, R11W</b>		
LEASE & WELL # <b>Schooley 4-35-11 2H</b>	COUNTY <b>Barber</b>	STATE <b>OK</b>	MILEAGE <b>280</b>	

## Customer Job Satisfaction Sheet

We will greatly appreciate if you can fill out a short survey regarding our performance today. Safety and service quality are our top priorities and we want to ensure that we are continually providing the best service possible in the safest manner as possible. These surveys are regularly reviewed and we highly value your opinion. Thank you for your business.

	Poor	Fair	Satisfactory	Great	Outstanding
HSE					
Performance of Crew					
Performance of Equipment					
Service Quality					
Job Completed as Agreed					

Customer Name (Printed)

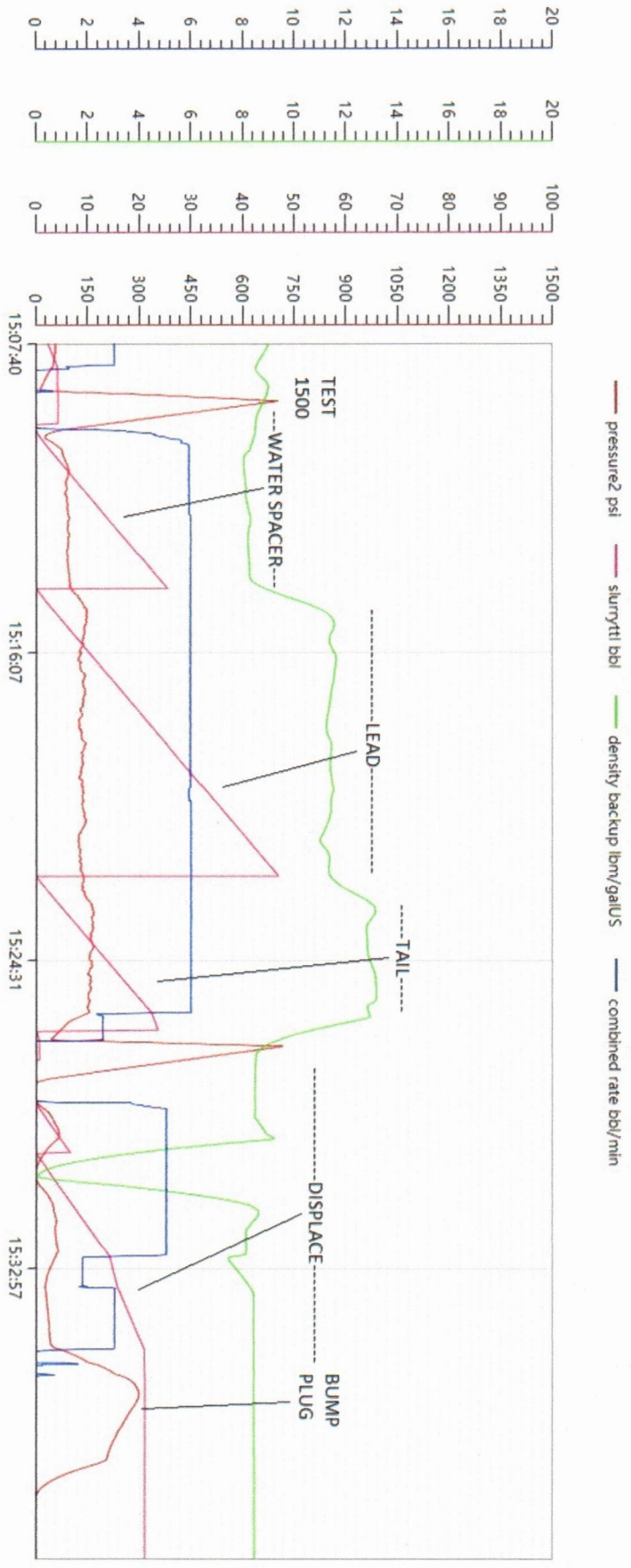
Customer Signature:

*Jim Miller*

Date:

*1-20-24*

# Chart Report



Date: 1/19/2024 Well Name: SCHOOLEY 4-35-11 2H Location: BARBER COUNTY, KS Country: MAGA Operator: BCE-MACH III LLC Supervisor: BRENNAN SEAMAN Jobtype: SURFACE Address: Comment: A-TEAM



# JOB LOG

PROJECT NUMBER	TICKET DATE
<b>P-6484</b>	<b>01/20/24</b>

COMPANY <b>BCE-Mach III LLC</b>	COUNTRY <b>USA</b>	STATE <b>OK</b>	COUNTY <b>Barber</b>
LEASE NAME <b>Schooley 4-35-11 2H</b>	EMPLOYEE NAME <b>BRENNAN SEAMAN</b>	CUSTOMER REP	
FIELD	SEC / TWP / RNG <b>Sec 09, T35S, R11W</b>	TICKET AMOUNT	
API/UWI # <b>15-007-24491</b>	JOB PURPOSE <b>Surface</b>	WELL TYPE	
<b>PUMP #1</b>	<b>302</b>		
<b>PUMP #2</b>			
<b>PUMP #3</b>			

Date	Time	Rate (BPM)	Volume (BBL)(GAL)	Press.(PSI)		Job Description / Remarks
				CSG.	Tbg	
1/19/2024	8:30					PRE-DEPARTURE MEETING
1/19/2024	9:00					DEPART FOR LOCATION - CUSTOMER REQUESTED CREW ARRIVAL TIME AT
1/19/2024	12:00					ARRIVE ON LOCATION - MEET WITH CUSTOMER
1/19/2024	12:10					SPOT ALL SPINNAKER EQUIPMENT
1/19/2024	12:20					PRE RIG UP MEETING
1/19/2024	12:30					RIG UP ALL SPINNAKER EQUIPMENT
1/19/2024	14:44					SAFETY MEETING - DISCUSS CEMENT PROCEDURE AND STOP WORK AUTHORITY
1/19/2024	15:06					PRIME LINES - TEST TO 1500
1/19/2024	15:11	5.0	40.0		86	40 BBL WATER SPACER
1/19/2024	15:13	5.0	49.9		84	95 SKS CLASS A LEAD CEMENT AT 11.4 PPG
1/19/2024	15:22	5.0	21.5		380	65 SKS CLASS A TAIL CEMENT AT 13.2 PPG
1/19/2024	15:27					SHUT DOWN DROP PLUG
1/19/2024	15:30	5.0	0 TO 10		80	WASH UP FIRST 10 BBL ON TOP OF PLUG

Supervisor Signature: *BMS*

Print Name: BRENNAN SEAMAN

Thank You For Using  
Spinnaker Oilfield Services



# JOB LOG

PROJECT NUMBER	TICKET DATE
<b>P-6484</b>	<b>01/20/24</b>
STATE	COUNTY
<b>OK</b>	<b>Barber</b>
CUSTOMER REP	
TICKET AMOUNT	
WELL TYPE	

COMPANY	COUNTRY
<b>BCE-Mach III LLC</b>	<b>USA</b>
LEASE NAME Well No.	EMPLOYEE NAME
<b>Schooley 4-35-11 2H</b>	<b>BRENNAN SEAMAN</b>
FIELD	SEC / TWP / RNG
	<b>Sec 09, T35S, R11W</b>
API/UWI #	JOB PURPOSE
<b>15-007-24491</b>	<b>Surface</b>

Date	Time	Rate (BPM)	Volume (BBL)(GAL)	Press.(PSI)		Job Description / Remarks
				CSG.	Tbg	
1/19/2024	15:31	2.0	10 TO 22		78	SLOW RATE TO 2 BPM PRIOR TO LANDING PLUG
1/19/2024	15:36	2.0	22.0		78-350	BUMP PLUG TO 250 PSI - HOLD 5 MIN
1/19/2024	15:41					CHECK FLOATS - FLOATS HELD - .5 BBL BACK
1/19/2024						0 CEMENT TO SURFACE
1/19/2024	15:45					RIG DOWN AND BLOW OUT WATER HOSES ALONG WITH WASH UP HOSE. WINTERIZE PUMP - WAIT 200 SKS OF TOP OUT
1/19/2024	20:35					TOP OUT ARRIVED
1/19/2024	20:40					RIG UP SPINNAKER EQUIPMENT
1/19/2024	20:57					SAFETY MEETING
1/19/2024	21:10					RUN 80 FT. 1 IN.
1/19/2024	21:52	2.0	5.0		180	GET 5 BBL INJ RATE
1/19/2024	21:58	2.0	23.5		365	PUMP 100 SKS CLASS A CEMENT AT 14.8 PPG - DID NOT GET CEMENT TO SURFACE
1/19/2024	22:26	2.0	23.5		26	PUMP ANOTHER 100 SKS CLASS A CEMENT AT 14.8 PPG - DID NOT GET CEMENT TO SURFACE
1/19/2024	22:45					CUSTOMER REQUESTED ANOTHER 200 SKS

Supervisor Signature: 

Print Name: BRENNAN SEAMAN

Thank You For Using  
Spinnaker Oilfield Services



# JOB LOG

PROJECT NUMBER	TICKET DATE
<b>P-6484</b>	<b>01/20/24</b>
STATE	COUNTY
<b>OK</b>	<b>Barber</b>
CUSTOMER REP	TICKET AMOUNT
WELL TYPE	

COMPANY	COUNTRY
<b>BCE-Mach III LLC</b>	<b>USA</b>
LEASE NAME Well No.	EMPLOYEE NAME
<b>Schooley 4-35-11 2H</b>	<b>BRENNAN SEAMAN</b>
FIELD	SEC / TWP / RNG
	<b>Sec 09, T35S, R11W</b>
API/UWI #	JOB PURPOSE
<b>15-007-24491</b>	<b>Surface</b>

Date	Time	Rate (BPM)	Volume (BBL)(GAL)	Press.(PSI)		Job Description / Remarks
				CSG.	Tbg	
1/19/2024	22:50					RIG DOWN AND BLOW OUT WATER HOSES ALONG WITH WASH UP HOSE. WINTERIZE PUMP - WAIT ON TOP OUT
1/20/2023	04:30					TOP OUT ARRIVED
1/20/2023	04:40					RIG UP SPINNAKER EQUIPMENT
1/20/2023	04:50					SAFETY MEETING
1/20/2023	05:05	2.0	10.0		25	PUMP 42 SKS CLASS AT CEMENT AT 14.8 PPG - CEMENT CIRCULATED TO SURFACE
1/20/2024	05:24					WASH TRUCK UP - BLOW OUT WATER LINE, AND WASH UP LINE
1/20/2024	05:35					RIG DOWN
1/20/2024	05:55					PRE DEPARTURE MEETING
1/20/2024	06:00					DEPART LOCATION
						PUMP A TOTAL OF 242 SKS OF TOP OUT = 56.9 BBL
						***ESTIMATED HOT = 265.1049 FT. TOT = 74.6551 FT.***
						***ESTIMATED HOL = 74.6551 FT TOL = 0 FT.***

Supervisor Signature: *BMS*

Print Name: BRENNAN SEAMAN

Thank You For Using  
Spinner Oilfield Services



# SERVICE ORDER CONTRACT

Customer Name BCE-Mach III LLC

Ticket Number P-6484

Lease & Well Number Schooley 4-35-11 2H

Date 1/19/2024

As consideration, The Above Named customer Agrees:

Spinnaker Oilfield Services Company LLC ("Spinnaker") shall not be responsible for and customer shall secure Spinnaker against any liability for damage to property of customer and of the well owner (if different from customer), unless caused by the willful misconduct or gross negligence of Spinnaker, this provision applying to

but not limited to subsurface damage and surface damage arising from subsurface damage, unless an MSA between Spinnaker and above named customer specifies otherwise.

Spinnaker makes no guarantee to the effectiveness of the products, supplies, or materials, nor of the results of any treatment or services. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Spinnaker personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others except where due to Spinnaker gross negligence or willful misconduct in the preparation or furnishing it.

Invoices payable NET 10 days following the date on the invoice.

Upon customers default in payment of the customers account 15 days past due.

Customer agrees to pay interest thereon after at the highest lawful contract rate applicable but never to exceed 18% per annum in the event it becomes necessary to employ an attorney to enforce collection of said account.

Customer agrees to pay all collection costs and attorney fees in the amount of 25% of the unpaid account.

Service order: I authorize work to begin per service instructions in accordance with terms and conditions printed on this form and represent that I have authority to accept and sign this order.

**I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMERS AGENT.**

Customer Authorized Agent: 

BCE-Mach III LLC  
Schooley 4-35-11 2H  
Barber  
1/19/2024  
Surface

Ticket # P-6484



LOCATION WATER TEST

General Information

Customer: BCE-Mach III LLC Date: 1/19/2024  
Ticket #: P-6484 Time: 12:00  
Lease Name & #: Schooley 4-35-11 2H Water Source: FRAC/RIG TANK  
Cementer: BRENNAN SEAMAN

Test Results Sample #1

			Standard Range
Temp	<u>PASS</u>	° F	50° to 100° F
pH	<u>PASS</u>		6.0 - 8.0
Sulfates	<u>PASS</u>	mg/L	Less Than 1500 mg/L
Chlorides	<u>PASS</u>	mg/L	Less Than 3000 mg/L
Lignins & Tannins	<u>NO</u>	Yes/No	No

Test Results Sample #2

			Standard Range
Temp	<u>                    </u>	° F	50° to 100° F
pH	<u>                    </u>		6.0 - 8.0
Sulfates	<u>                    </u>	mg/L	Less Than 1500 mg/L
Chlorides	<u>                    </u>	mg/L	Less Than 3000 mg/L
Lignins & Tannins	<u>                    </u>	Yes/No	No

Remarks:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# EQUIPMENT CHECKLIST

UNIT # 362

## 1. BEFORE THE JOB – PREPARE

- Power up the unit, ensuring all electronics are functioning, and recalibrate all console pressure gauges to atmospheric pressure
- Check the cement head (visually inspect), vacuum breakers, and dry cement line.
- Prime the truck up and pressure test. Test for Global kick-out, and check martin decker gauges. Note any difference between console and martin decker pressures.
- Function test and pump through the entire plumbing, checking all lines as well as centrifugal and triplex pumps. Check for any packing leaks on the pumping unit. Chart the test.
- Check the bulk equipment; compressors, valves, pop-offs, to make sure it airs up and hold pressure.
- Check the casing cement head, O-rings, adapters (sizes and thread types).
- Check the bulk paperwork, ensuring all correct cement and volumes are on location.
- Check to make sure all chemicals and plugs are on location. Check the auxiliary boost pump, if any.
- Perform a Water Analysis.

## 2. DURING THE JOB

- Note any pumping issues or any discrepancies on outputs
- Check for any leaks and contain accordingly if any

## 3. AFTER THE JOB

- Turn in the check list to customer, if requested, and include a copy with packet, and make detailed note of any issues

Supervisor Comments:



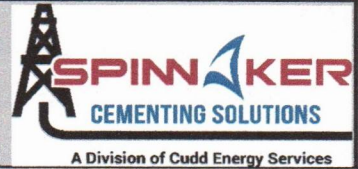
(Supervisor Name and Signature)



(Operator Name and Signature)

BCE-Mach III LLC  
 Schooley 4-35-11 2H  
 Barber  
 1/19/2024  
 Surface

Ticket # P-6484



COMPANY <b>BCE-Mach III LLC</b>	PROJECT NUMBER <b>P-6484</b>	CUSTOMER REP:	DATE <b>1/19/2024</b>
CONTRACTOR <b>Spinnaker Oil</b>	Owner <b>Same</b>	LEGAL DESCRIPTION <b>Sec. 9-T35S-R11W</b>	
LEASE & WELL # <b>Schooley 4-35-11 2H</b>	COUNTY <b>Barber</b>	STATE <b>OK</b>	MILEAGE <b>280</b>

Safety Meeting Attendance Sign-In Sheet

Date: 1/19/2024

Topic: DISCUSS CEMENT PROCEDURE AND STOPWORK AUTHORITY

Date	Printed Name	Signature
1/19/2024	BRENNAN SEAMAN	<i>[Signature]</i>
1/19/2024	JOSE CALDERON	<i>[Signature]</i>
1/19/2024	JONATHAN HILLYER	<i>[Signature]</i>
1/19/2024	JOSH HARDIN	<i>[Signature]</i>
1/19/24	Felix Obregon	<i>[Signature]</i>
1/19/24	David Valle	<i>[Signature]</i>
1-14-24	<del>James</del>	<del>[Signature]</del>
1-19-24	Tim Mills	<i>[Signature]</i>
	Gustavo Rivera M.	

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### JOB SAFETY ANALYSIS (JSA)

<b>WORK LOCATION (Check):</b>	<input type="checkbox"/> DISTRICT SHOP/YARD	<input checked="" type="checkbox"/> REMOTE WORK SITE	<b>DATE:</b>	1/19/2023
<b>CUSTOMER:</b>	BCE-MACH			
<b>CUSTOMER REPRESENTATIVE:</b>				
<b>LEASE NAME</b>	SCHOOLEY 4-35-11 2H			
<b>WELL NAME</b>				
<b>SUPERVISOR NAME (PRINT):</b>	BRENNAN SEAMAN	<b>EMPLOYEE ID:</b>	34478	
<b>SUPERVISOR SIGNATURE:</b>				

**CUDD LIFE SAVING RULES**  
Discuss CUDD Life Saving Rules, as applicable

Conduct prework hazard assessment	Protect against a fall from heights	Follow safe lifting and hoisting practices	Drive safe	Utilize the proper tool for the job
Follow work permit requirements	Verify isolation of energy / Lock-out Tag-out (LOTO)	Wear and maintain required PPE	Protect against chemical exposure	

<b>GENERAL HAZARDS</b>	
Check the boxes for the general hazards for this job site and discuss during JSA meeting	
	Comments
<input type="checkbox"/> Extreme Weather	
<input checked="" type="checkbox"/> Fauna/Wildlife/Insects	Inspect all hoses and verify all the PPE needed for the job is available.
<input checked="" type="checkbox"/> Hazardous Areas	Watch for wild animals, snakes/spiders
<input type="checkbox"/> Low Lighting	Emergency shower trailer will be required.
<input checked="" type="checkbox"/> Vehicular Traffic	Ensure all personnel keep hydrating throughout the day.
<input checked="" type="checkbox"/> Poor Walking/Working Conditions	

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**WORK TASK ANALYSIS**

Describe all work task steps, potential accidents and hazards, and all safeguards and mitigations below, multiple copies of this page may be printed as necessary.

**REVIEW AND DISCUSS STOP WORK AUTHORITY (SWA) WITH ALL PERSONNEL**

WORK TASKS	DESCRIBE POTENTIAL ACCIDENTS AND HAZARDS INVOLVED	SAFEGUARDS/MITIGATIONS
-Complete daily JSEA -Equipment Preparation -Inspecting Equipment	Miscommunication, Not understanding the task, Complacency, Day dreaming, Equipment Defects, Miscommunications, Slips, Trips, and Falls, Pinch Points, Noncompliance with Company PPWIs, and SOPs	Read & Understand JSEA, Thoroughly Inspect Equipment, Clear Communications, ask questions when needed, Proper Hand and Feet Placements, Eyes on Path & Work Task, Competent of and Compliance with Company PPWIs and SOPs
Chemical & Material Handling -Mixing -Gauging -Blending -Transferring -Acid Testing	Chemical Injuries, Burns, Chemical Spills, Equipment Failures, Punctured containers, Fires, using wrong tools & equipment, mixing incompatible materials, Hot Surfaces, Inhaling Fumes, Noncompliance with Company PPWIs and SOPs	Utilize Proper PPE, (Face shields and respirators as needed) Eyes on Path and Work Task, Aware of Surroundings, Read Labels/Instructions and follow proper recommendations for material/Chemical handling/mixing, use FRC when handling flammable materials, Competent of and Compliance with Company PPWIs and SOPs.
Chemical & Material Handling -Mixing -Gauging -Blending -Transferring	Not knowing the Chemical/material and risk/hazards involved with handling or mixing certain substances.	An SDS should be consulted for each of these substances to identify the associated hazards: Flammable, Corrosive, Toxic, Harmful, Irritant, Oxidizing or Other. Hazard Ratings (Min, Low, Mod, High, Extreme) and Dangerous. Classification of materials should be identified in the SDS. A substance may have more than one classification. Include all solvents, reactants, drying agents etc. An experienced laboratory worker should be able to read and understand an SDS.
ASSESS LOCATION FOR POTENTIAL HAZARDS	SLIPS-TRIPS-FALLS, H2S, STRUCK BY,	PAY ATTENTION TO SURROUNDINGS REMOVE HAZARDS IF POSSIBLE PROPER PPE
SAFETY HUDDLE TO DISCUSS HAZARDS AND POTENTIAL HAZARDS WHILE SPOTTING EQUIPMENT	NOT UNDERSTANDING OR HEARING JOB STEPS	SPEAK LOUD AND CLEAR-PAY ATTENTION-ASK QUESTIONS
SPOT EQUIPMENT	BACKING INTO OR OVER SOMETHING OR SOMEONE, STRIKING STATIONARY OBJECT	USE SPOTTERS AND MIRRORS BACK SLOW, WATCH SPOTTER, WALK PATH OF TRAVEL AND OBSERVE SURROUNDINGS
RIG UP IRON AND HOSES	SLIPS-TRIPS-FALLS-PINCH POINTS, STRUCK BY, DROPPED OBJECTS, STRAINS	PAY ATTENTION, DON'T RUSH, TWO MAN CARRY, FOLLOW DIRECTIONS, USE PROPER LIFTING TECHNIQS,

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PRIME PUMPS	MOVING PARTS PRESSURE	TRAPPED	CLEAR PUMP OF PERSONNEL – SET PRESSURE TRIPS- CHECK VALVES ARE IN PROPER POSITION
SAFETY MEETING	MISCOMMUNICATION		REVIEW ALL JOB PROCEDURES/ HAZARDS WITH ALL PERSONEL INVOLVED, REVIEW MUSTER AREAS AND EMERGENCY PLAN
TEST LINES	LINES LEAKING OR IRON PARTING, PRESSURE		STAY CLEAR OF LINES WHILE UNDER PRESSURE- NEVER HAMMER ON IRON W/ PRESSURE ON IT!!! IRON INSPECTION
PUMP FLUIDS	LEAKS-PUMPING WRONG FLUIDS-VALVES CLOSED- PINCH POINTS Fumes, chemical exposure, chemical burns Chemical exposure related illnesses. Chemical splashes.  Failure to identify hazards, wrong PPE for the job. Miscommunication		START PUMPING SLOWLY- WATCH FOR LEAKS OR RAPID PRESSURE – Check pumping correct system. PAY ATTENTION TO JOB DUTIES Inspect and utilize chemical gear to eliminate or minimize exposure. If any leaks occur leave the area immediately and report it to te supervisor. Contain the leak is safe to do so. In case of a chemical splash, utilize emergency shower trailer, and report the incident to your supervisor, contact workPartners for further instructions. Make sure you are familiar with all instructions given during the JSEA meeting, ask questions if you aren't sure about something, utilize SWAT.
RIG DOWN IRON, HOSES AND LOAD	SLIPS-TRIPS-FALLS- DROPED OBJECTS- PINCH POINTS		WATCH HAND AND FOOT PLACEMENT. DON'T WALK UNDER LOADS BEING LOWERED OR RAISED. DON'T THROW HAMMERS OR HANDLES. DON'T RUSH OR TAKE SHORT CUTS. WORK TOGETHER ASK FOR HELP, OFFER HELP
LEAVE LOCATION	STRIKING OBJECT OR SOMEONE. OBJECTS FALLING FROM TRUCKS. FALLING ASLEEP WHILE DRIVING		USE SPOTTER IF NEEDED. MAKE SURE ALL EQUIPMENT IS SECURE BEFORE MOVING TRUCK. WALK AROUND BEFORE GETTING IN CAB. IF YOU ARE TOO TIRED TO DRIVE, TAKE A NAP BEFORE LEAVING LOCATION. STOP IF YOU BECOME SLEEPY

**REQUIRED PPE**

Check the boxes for all required PPE while conducting work tasks, for additional required PPE, describe in the box next to the "OTHER" field.

<input checked="" type="checkbox"/> HARD HAT	<input type="checkbox"/> HALF-FACE AIR PURIFYING RESPIRATOR	<input type="checkbox"/> OTHER:	Goggles
<input checked="" type="checkbox"/> SAFETY GLASSES	<input checked="" type="checkbox"/> PERSONAL MONITOR	<input type="checkbox"/> OTHER:	Chemical Gear.
<input checked="" type="checkbox"/> FR CLOTHING	<input checked="" type="checkbox"/> H2S <input checked="" type="checkbox"/> O2 <input checked="" type="checkbox"/> LEL <input checked="" type="checkbox"/> CO	<input type="checkbox"/> OTHER:	
<input checked="" type="checkbox"/> SAFETY TOE BOOTS	<input type="checkbox"/> FALL PROTECTION	<input type="checkbox"/> OTHER:	
	<input checked="" type="checkbox"/> HEARING PROTECTION	<input type="checkbox"/> OTHER:	

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<input checked="" type="checkbox"/> HAND PROTECTION			
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<b>Permit to Work</b>	
Check the boxes for all required tasks which involve a permit to work, follow the required actions for each task. For tasks conducted simultaneously, all required actions for all tasks should be followed.	
Task	Required Actions
<input type="checkbox"/> Confined Space Entry	<ul style="list-style-type: none"> <li>• Confined Space Entry shall NOT be conducted on a customer location.</li> <li>• Refer to SAF-PR-6005-1 Confined Space Entry</li> <li>• Follow service line specific confined space entry program.</li> <li>• Complete the following forms prior to confined space entry in a CES facility as applicable:               <ul style="list-style-type: none"> <li>○ SAF-FO-6005-1 Confined Space Pre-entry Checklist</li> <li>○ SAF-FO-6005-2 Confined Space Entry Permit</li> </ul> </li> </ul>
<input type="checkbox"/> Critical Lifts	<ul style="list-style-type: none"> <li>• Refer to LFT-WI-6010-11 Critical Lift Planning &amp; Operations</li> <li>• Complete the following forms as applicable prior to conducting lift:               <ul style="list-style-type: none"> <li>○ LFT-FO-6010-1 Critical Lift Determination Worksheet</li> <li>○ LFT-FO-6010-3 Critical Lift Plan</li> </ul> </li> </ul>
<input type="checkbox"/> Lock Out / Tag Out	<ul style="list-style-type: none"> <li>• Follow service line specific LOTO Program</li> <li>• Complete all applicable energy isolation certifications and checklists as applicable</li> </ul>
<input type="checkbox"/> Hot Work	<ul style="list-style-type: none"> <li>• Refer to SAF-PR-6026-1 Hot Work</li> <li>• Complete form SAF-FO-6026-1 CES Hot Work Permit prior to beginning hot work as applicable.</li> </ul>
<input type="checkbox"/> Hydrogen Sulfide (H2S)	<ul style="list-style-type: none"> <li>• Refer to SAF-PR-6017-1 Hydrogen Sulfide</li> <li>• Complete the following forms as applicable prior to performing work:               <ul style="list-style-type: none"> <li>○ SAF-FO-6017-1 Hydrogen Sulfide Pre-Entry Checklist</li> <li>○ SAF-FO-6017-2 Hydrogen Sulfide Entry Permit</li> </ul> </li> </ul>
<input checked="" type="checkbox"/> Working at Heights	<ul style="list-style-type: none"> <li>• This applies to working at heights above 4ft without engineered/administrative controls to prevent falling.</li> <li>• Refer to SAF-PR-6076-1 Fall Protection</li> <li>• Complete for SAF-FO-6076-1 Fall Protection Work Plan as applicable</li> </ul>



BCE-Mach III LLC  
 Schooley 4-35-11 2H  
 Barber  
 1/23/2024  
 Intermediate

Ticket # P-6485



COMPANY <b>BCE-Mach III LLC</b>		PROJECT NUMBER <b>P-6485</b>	AFE/WORK ORDER	DATE <b>1/23/2024</b>
CONTRACTOR <b>Spinnaker Oil</b>		Owner <b>Same</b>	LEGAL DESCRIPTION <b>Sec 09, T35S, R11W</b>	API <b>15-007-24491</b>
LEASE & WELL # <b>Schooley 4-35-11 2H</b>		COUNTY <b>Barber</b>	STATE <b>KS</b>	MILEAGE <b>280</b>

From Kiowa, KS - Head West on KS-2/Main Street for 1.7 miles. Turn North onto Red Dust Road for 1.0 miles. North into Atlas 3

Pumping Services	<input type="checkbox"/> Surface		<input checked="" type="checkbox"/> Intermediate		<input type="checkbox"/> Long String		<input type="checkbox"/> Plug Back		
	<input type="checkbox"/> Squeeze		<input type="checkbox"/> Acid		<input type="checkbox"/> PTA		<input type="checkbox"/> Other		( ) H2S
	Casing Size	Casing Weight	Thread	CSG Grade	Plug. Cont.	Swage	Top Plug	Bottom Plug	% Excess
	7	26.00	TCBC-HT	P-110	Yes	Yes	Yes	Yes	30%
Number and Type Units						BHST - F	Casing Depth	Depth - TVD - FT	Hole Size - Inches
Pump Truck, 1 ea. 660 Bulk						133	5247	4864	8 3/4
Remarks						BHCT - F	Pvs Csg	Depth - MD - FT	Mud Weight/Type - PPG
7" Top & Bottom Plugs, Head, manifold, circulating iron & both adapters						106	9-5/8" at 300'	5247	WBM ~9.2

<b>BBL OF SPACER</b>	Type		<b>SPACER</b>	
<b>40</b>	Fresh Water		Fresh Water	
<b>BBL OF LEAD</b>	# of Sacks	Type		<b>LEAD CEMENT</b>
<b>63.7</b>	<b>65</b>	Class A/POZ		<b>65 Sacks 65/35 A/POZ, 12% Gel, 12% Gypsum, 12% SFA, 1.5% SA-2, 0.4 lb/sk Poly Flakes, 0.2% Fine Super Fibers</b>
<b>H2O REQUIRED</b>	Weight PPG	Yield Ft3/Sk	Water Gal/S	
<b>55.5</b>	<b>10.20</b>	<b>5.50</b>	<b>35.87</b>	
<b>BBL OF TAIL</b>	# of Sacks	Type		<b>TAIL CEMENT</b>
<b>37.1</b>	<b>150</b>	Class A/POZ		<b>150 Sacks 50/50 A/POZ, 3% Gel, 2% Gypsum, 0.35% SFL-5, 0.25 lb/sk Poly Flakes, 0.1% Fine Super Fibers</b>
<b>H2O REQUIRED</b>	Weight PPG	Yield Ft3/Sk	Water Gal/S	
<b>23.6</b>	<b>13.80</b>	<b>1.39</b>	<b>6.61</b>	
<b>Displacement</b>	Qty - BBLS	Type	Procedure	
	<b>198</b>	<b>Water</b>	<b>Water</b>	

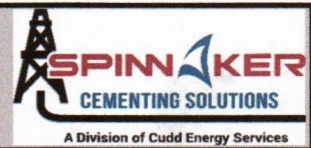
NOTES:

**LEAD - BACK POT | TAIL - FRONT POT**  
 Pump time: LEAD - 6:00 hrs. TAIL - 4:00 hrs  
 \*\* 5 bpm Max \*\*

Sales Items	Casing Size	7	Casing Weight	26.00	Thread	
	Guide Shoe		Float Shoe		Float Collar	Insert Float Valve
	Remarks <b>Defoamer, Plugs</b>					

**BCE-Mach III LLC**  
**Schooley 4-35-11 2H**  
**Barber**  
**1/24/2024**  
**Intermediate**

**Ticket # P-6485**



**Customer: BCE-Mach III LLC**

**Customer Rep:**

**Well Name:** Schooley 4-35-11 2H  
**County:** Barber  
**State:** Kansas  
**API #:** 15-007-24491  
**Legals:** Sec 09, T35S, R11W

**Mobile:**  
**Job Type:** Intermediate  
**Casing:** 7  
**Field Supervisor:**  
**Date:** 1/24/2024  
**Proposal #:** 47130001

Ref. #	Description	Quantity	Unit Price	Sub Total	Total
<b>***** Cementing Service and Materials *****</b>					
MLPU1	Pickup Mileage 1 unit (roundtrip miles)	280	\$3.94	\$1,103.20	\$462.00
MLHE2	Heavy Vehicle Mileage 2 units (roundtrip miles)	280	\$13.56	\$3,796.80	\$1,596.00
MLTN	Bulk Cement Delivery/Return (per Ton-Mile)	1,480	\$2.73	\$4,040.40	\$1,702.00
MXBK	Bulk Material Mixing Service Charge (Per cu.ft.)	215	\$3.03	\$651.45	\$273.05
CMTHD	Cement Head with manifold (per Job)	1	\$1,895.00	\$1,895.00	\$795.90
PC6K	Pump Charge 5001-6000' (Per 5 hrs)	1	\$4,325.75	\$4,325.75	\$1,816.82
DAQ	Data Acquisition System	1	\$1,331.00	\$1,331.00	\$559.02
FLSCG	Fuel Surcharge (per unit/per job)	2	\$605.00	\$1,210.00	\$508.20
ENVFEE	Environmental Fee	1	\$211.75	\$211.75	\$88.94
DAMSS	Data Monitoring System/Supervisor	1	\$800.00	\$800.00	\$336.00
CIRON	Circulation Equipment (40' of equipment per job)	2	\$1,512.50	\$3,025.00	\$1,270.50
CSTD	Class A Type Standard Cement (per sack)	118	\$31.81	\$3,753.58	\$1,576.48
CPOZF	POZ (per sack)	98	\$17.35	\$1,700.30	\$714.42
CEXTGEL	GEL (per lb)	1,100	\$0.63	\$693.00	\$286.00
CEXTGYD	Gypsum (per lb)	931	\$0.54	\$502.74	\$214.13
CEXTSFA	SFA (per lb)	679	\$1.21	\$821.59	\$346.29
CFL5	SFL-5 (per lb)	45	\$18.56	\$835.20	\$351.00
CFWCSA1	SA-2 (per lb)	85	\$19.52	\$1,659.20	\$697.00
CLCMPF	Poly Flake (per lb)	64	\$3.23	\$206.72	\$87.04
CLCMFBR	Fine Super Fiber (per lb)	24	\$19.28	\$462.72	\$194.40
<b>Additional Items if used</b>					
PCADD	Primary Pump Unit Addl Hours	1.0	\$594.50	\$594.50	\$594.50
BKADD	Bulk Unit Additional Hours (per unit/per hour)	1.0	\$121.00	\$121.00	\$121.00
FTRP7	7" Top Rubber Plug	0	\$140.00	\$0.00	\$0.00
FBRP7	7" Bottom Rubber Plug	0	\$150.00	\$0.00	\$0.00
SG36	Swage, 4 1/2" - 13 3/8" (per day)	1	\$423.50	\$423.50	\$177.87
VALV12	1" to 2" valves	1	\$393.25	\$393.25	\$165.17
RADIO	Radios (per job)	0	\$135.00	\$0.00	\$0.00
CACCCC	Calcium Chloride (per lb)	100	\$1.45	\$145.00	\$61.00
CSUGAR	Sugar (per lb)	0	\$1.47	\$0.00	\$0.00
CDFDIAL	ATF Cement Defoamer (per gal)	10	\$29.50	\$295.00	\$295.00
DERKC	Derrick Charge (Cement Head Stabbing Above 8 ft)	0	\$726.00	\$0.00	\$0.00
WTCMT	Waiting on Cement Head after job (per hours)	0	\$95.00	\$0.00	\$0.00
	Book Price			\$34,997.65	
	<b>Estimated Job Cost (Exclusive of Sales Tax)</b>				<b>\$15,289.73</b>

Signature: [Signature]  
 Field Supervisor:

Signature: [Signature]  
 Customer Rep: Dusty C. Mark

JASON T.  
 AFE # DC 23120

WELL NAME SCHOOLEY 4-35-11 2H

COST CODE 2050 3000

AMOUNT 15289.73

DATE 1/24/24



BCE-Mach III LLC  
 Schooley 4-35-11 2H  
 Barber  
 1/23/2024  
 Intermediate

Ticket # P-6485



COMPANY <b>BCE-Mach III LLC</b>	PROJECT NUMBER <b>P-6485</b>	CUSTOMER REP: <b>0</b>	DATE <b>1/23/2024</b>
CONTRACTOR <b>Spinnaker Oil</b>	Owner <b>Same</b>	LEGAL DESCRIPTION <b>Sec 09, T35S, R11W</b>	
LEASE & WELL # <b>Schooley 4-35-11 2H</b>	COUNTY <b>Barber</b>	STATE <b>KS</b>	MILEAGE <b>280</b>

## Customer Job Satisfaction Sheet

We will greatly appreciate if you can fill out a short survey regarding our performance today. Safety and service quality are our top priorities and we want to ensure that we are continually providing the best service possible in the safest manner as possible. These surveys are regularly reviewed and we highly value your opinion. Thank you for your business.

	Poor	Fair	Satisfactory	Great	Outstanding
HSE					
Performance of Crew					
Performance of Equipment					
Service Quality					+
Job Completed as Agreed					

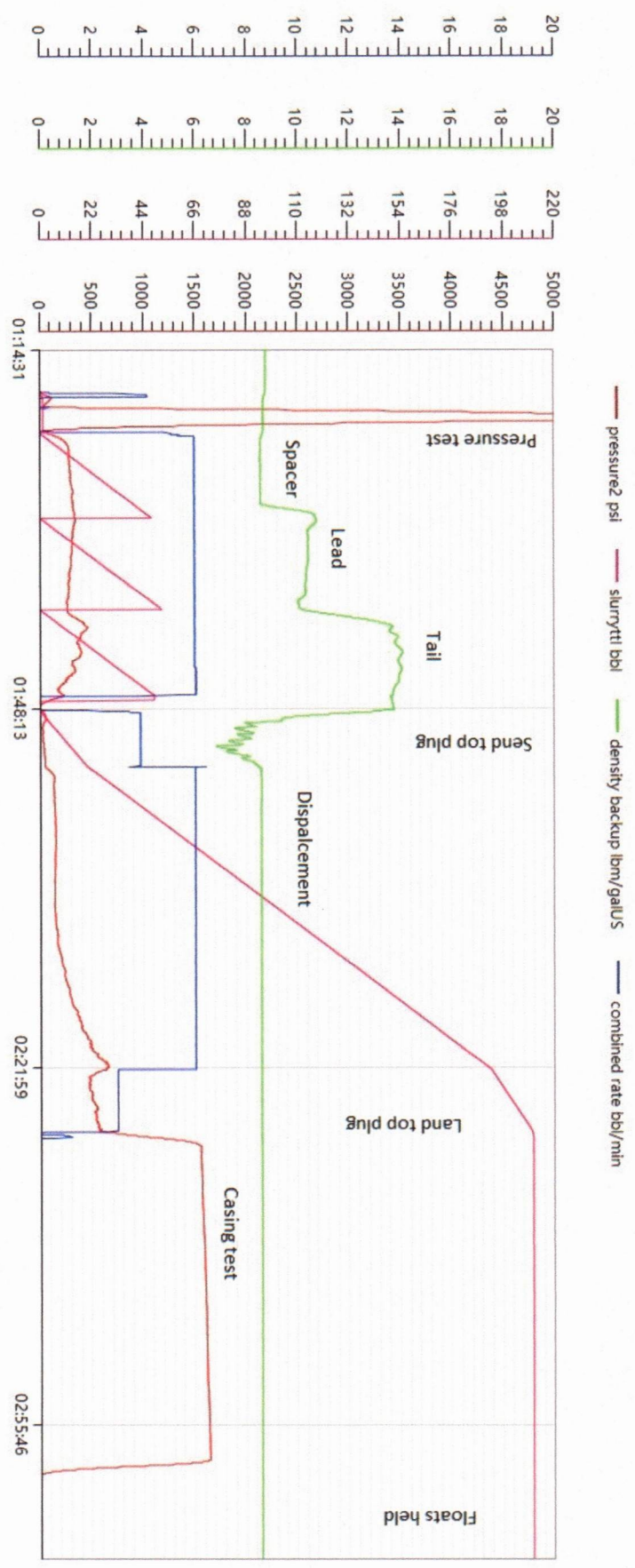
Customer Name (Printed)

*Justin C. Merish*

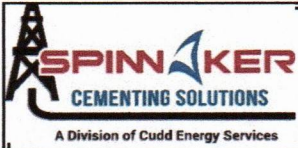
Customer Signature:

Date: \_\_\_\_\_

### Chart Report



Date: 1/23/2024 Well Name: Schooley 4-35-11 2H Location: Barber County, US Operator: BCE\_Mach III Supervisor: BROADY WOODS Jobtype: Intermediate Address: Comment: Dream Team



# JOB LOG

PROJECT NUMBER	TICKET DATE
P-6485	01/24/24

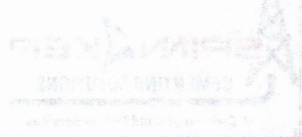
COMPANY <b>BCE-Mach III LLC</b>	COUNTRY <b>USA</b>	STATE <b>KS</b>	COUNTY <b>Barber</b>
LEASE NAME <b>Schooley 4-35-11 2H</b>	Well No.	EMPLOYEE NAME	CUSTOMER REP
FIELD	SEC / TWP / RNG <b>Sec 09, T35S, R11W</b>	TICKET AMOUNT	
API/UWI # <b>15-007-24491</b>	JOB PURPOSE <b>Intermediate</b>	WELL TYPE	
<b>PUMP #1</b>	<b>309</b>		
<b>PUMP #2</b>			
<b>PUMP #3</b>			

Date	Time	Rate (BPM)	Volume (BBL)(GAL)	Press.(PSI)		Job Description / Remarks
				CSG.	Tbg	
1/23/2024	16:00					Crew arrived in yard for pre trip and journey management
	21:30					Crew arrived on location spotting equipment and pre rig up meeting
1/24/24	1:15					Safety meeting discussing job procedure and safety
	1:20			5000		Test pump and lines
	1:24	6.0	40.0	140		Spacer
	1:28	6.0	10.0	200		Lead cement 10.20 ppg
	1:38	6.0	63.7	280		Lead cement 10.20 ppg
	1:39	6.0	10.0	300		Tail cement 13.80 ppg
	1:45	6.0	37.1	300		Tail cement 13.80 ppg
	1:46	6.0	10.0	100		Shut down / Send top plug / Wash up
	2:08	6.0	100.0	180		Displacement
	2:16	6.0	150.0	400		Displacement
	2:28	3.0	198.0	1500		Land top plug into 1500 psi casing test

Supervisor Signature:

Print Name: *Brady Seeds*

Thank You For Using  
Spinnaker Oilfield Services



# JOB LOG

07/24/24	P-6488	
Support	USA	BOE-Wash LLC
	2nd 00, 1302 RT1W	Schooler 4-25-14 3H
	Info Message	18-007-24481
		PUMP 01
		PUMP 02
		PUMP 03

Date	Time	Pump	Flow Rate	Pressure	Flow	Pump	Flow Rate	Pressure	Flow
11/23/24	11:00								
	11:30								
11/23/24	1:10								
	1:30								
	1:34	8.0	40.0						
	1:38	8.0	10.0						
	1:39	8.0	83.7						
	1:39	8.0	10.0						
	1:42	8.0	37.1						
	1:48	8.0	10.0						
	2:08	8.0	100.0						
	2:18	8.0	100.0						
	2:28	8.0	188.0						

Supervisor Signature

Print Name

Thank You for Using  
Spinner-Offical Service







# SERVICE ORDER CONTRACT

Customer Name BCE-Mach III LLC

Ticket Number P-6485

Lease & Well Number Schooley 4-35-11 2H

Date 1/23/2024

As consideration, The Above Named customer Agrees:

Spinnaker Oilfield Services Company LLC ("Spinnaker") shall not be responsible for and customer shall secure Spinnaker against any liability for damage to property of customer and of the well owner (if different from customer), unless caused by the willful misconduct or gross negligence of Spinnaker, this provision applying to but not limited to subsurface damage and surface damage arising from subsurface damage, unless an MSA between Spinnaker and above named customer specifies otherwise.

Spinnaker makes no guarantee to the effectiveness of the products, supplies, or materials, nor of the results of any treatment or services. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Spinnaker personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others except where due to Spinnaker gross negligence or willful misconduct in the preparation or furnishing it.

Invoices payable NET 10 days following the date on the invoice.

Upon customers default in payment of the customers account 15 days past due. Customer agrees to pay interest thereon after at the highest lawful contract rate applicable but never to exceed 18% per annum in the event it becomes necessary to employ an attorney to enforce collection of said account. Customer agrees to pay all collection costs and attorney fees in the amount of 25% of the unpaid account.

Service order: I authorize work to begin per service instructions in accordance with terms and conditions printed on this form and represent that I have authority to accept and sign this order.

**I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMERS AGENT.**

Customer Authorized Agent: 

Justy C. Mach

BCE-Mach III LLC  
Schooley 4-35-11 2H  
Barber  
1/23/2024  
Intermediate

Ticket # P-6485



LOCATION WATER TEST

General Information

Customer: BCE-Mach III LLC Date: 1/23/2024  
Sales Order #: P-6485 Time: 21:30  
Lease Name & #: Schooley 4-35-11 2H Water Source: rig  
Tested By: Broady Woods

Test Results Sample #1

		Standard Range
Temp	<u>good</u> ° F	50° to 100° F
pH	<u>good</u>	6.0 - 8.0
Sulfates	<u>good</u> mg/L	Less Than 1500 mg/L
Chlorides	<u>good</u> mg/L	Less Than 3000 mg/L
Lignins & Tannins	<u>no</u> Yes/No	No

Test Results Sample #2

		Standard Range
Temp	<u>                    </u> ° F	50° to 100° F
pH	<u>                    </u>	6.0 - 8.0
Sulfates	<u>                    </u> mg/L	Less Than 1500 mg/L
Chlorides	<u>                    </u> mg/L	Less Than 3000 mg/L
Lignins & Tannins	<u>                    </u> Yes/No	No

Remarks:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# EQUIPMENT CHECKLIST

UNIT # 309

## 1. BEFORE THE JOB – PREPARE

- Power up the unit, ensuring all electronics are functioning, and recalibrate all console pressure gauges to atmospheric pressure
- Check the cement head (visually inspect), vacuum breakers, and dry cement line.
- Prime the truck up and pressure test. Test for Global kick-out, and check martin decker gauges. Note any difference between console and martin decker pressures.
- Function test and pump through the entire plumbing, checking all lines as well as centrifugal and triplex pumps. Check for any packing leaks on the pumping unit. Chart the test.
- Check the bulk equipment; compressors, valves, pop-offs, to make sure it airs up and hold pressure.
- Check the casing cement head, O-rings, adapters (sizes and thread types).
- Check the bulk paperwork, ensuring all correct cement and volumes are on location.
- Check to make sure all chemicals and plugs are on location. Check the auxiliary boost pump, if any.
- Perform a Water Analysis.


## 2. DURING THE JOB

- Note any pumping issues or any discrepancies on outputs
- Check for any leaks and contain accordingly if any

## 3. AFTER THE JOB

- Turn in the check list to customer, if requested, and include a copy with packet, and make detailed note of any issues

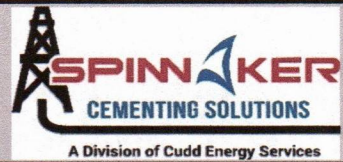
Supervisor Comments:

  
 \_\_\_\_\_  
 (Supervisor Name and Signature)

\_\_\_\_\_  
 (Operator Name and Signature)

BCE-Mach III LLC  
 Schooley 4-35-11 2H  
 Barber  
 1/23/2024  
 Intermediate

Ticket # P-6485



COMPANY <b>BCE-Mach III LLC</b>	PROJECT NUMBER <b>P-6485</b>	CUSTOMER REP: <b>0</b>	DATE <b>1/23/2024</b>
CONTRACTOR <b>Spinnaker Oil</b>	Owner <b>Same</b>	LEGAL DESCRIPTION	
LEASE & WELL # <b>Schooley 4-35-11 2H</b>	COUNTY <b>Barber</b>	STATE <b>KS</b>	MILEAGE <b>280</b>

Safety Meeting Attendance Sign-In Sheet

1/23/2024

Safety and job design

Date	Printed Name	Signature
	Broady Woods	
	Anderson Graham	
	Ian Roberts	
	Diego Torres	
	DUSTY MARSH	
	Jose Reta	
	Raul Jimenez	
	Jose Reta	
	Raul Jimenez	
	Saul Sancedo	
	Fily Moreno	



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Job Safety Analysis (JSA) Form	Revision Date: 05-02-2022	Page 1 of 5
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**JOB SAFETY ANALYSIS (JSA)**

<b>WORK LOCATION (Check):</b>	<input type="checkbox"/> DISTRICT SHOP/YARD	<input checked="" type="checkbox"/> REMOTE WORK SITE	<b>DATE:</b>	1/21/2024
<b>CUSTOMER:</b>	BCE-Mach III			
<b>CUSTOMER REPRESENTATIVE:</b>				
<b>LEASE NAME</b>	Schooley 4-35-11 2H			
<b>WELL NAME</b>				
<b>SUPERVISOR NAME (PRINT):</b>	Broady Woods	<b>EMPLOYEE ID:</b>	34519	
<b>SUPERVISOR SIGNATURE:</b>				

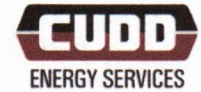
**CUDD LIFE SAVING RULES**  
Discuss CUDD Life Saving Rules, as applicable

Conduct prework hazard assessment	Protect against a fall from heights	Follow safe lifting and hoisting practices	Drive safe	Utilize the proper tool for the job
Follow work permit requirements	Verify isolation of energy / Lock-out Tag-out (LOTO)	Wear and maintain required PPE	Protect against chemical exposure	

**GENERAL HAZARDS**  
Check the boxes for the general hazards for this job site and discuss during JSA meeting

<input type="checkbox"/> Extreme Weather	<b>Comments</b> Inspect all hoses and verify all the PPE needed for the job is available. Watch for wild animals, snakes/spiders Emergency shower trailer will be required. Ensure all personnel keep hydrating throughout the day.
<input checked="" type="checkbox"/> Fauna/Wildlife/Insects	
<input checked="" type="checkbox"/> Hazardous Areas	
<input type="checkbox"/> Low Lighting	
<input checked="" type="checkbox"/> Vehicular Traffic	
<input checked="" type="checkbox"/> Poor Walking/Working Conditions	

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**WORK TASK ANALYSIS**

Describe all work task steps, potential accidents and hazards, and all safeguards and mitigations below, multiple copies of this page may be printed as necessary.

**REVIEW AND DISCUSS STOP WORK AUTHORITY (SWA) WITH ALL PERSONNEL**

WORK TASKS	DESCRIBE POTENTIAL ACCIDENTS AND HAZARDS INVOLVED	SAFEGUARDS/MITIGATIONS
-Complete daily JSEA -Equipment Preparation -Inspecting Equipment	Miscommunication, Not understanding the task, Complacency, Day dreaming, Equipment Defects, Miscommunications, Slips, Trips, and Falls, Pinch Points, Noncompliance with Company PPWIs, and SOPs	Read & Understand JSEA, Thoroughly Inspect Equipment, Clear Communications, ask questions when needed, Proper Hand and Feet Placements, Eyes on Path & Work Task, Competent of and Compliance with Company PPWIs and SOPs
Chemical & Material Handling -Mixing -Gauging -Blending -Transferring -Acid Testing	Chemical Injuries, Burns, Chemical Spills, Equipment Failures, Punctured containers, Fires, using wrong tools & equipment, mixing incompatible materials, Hot Surfaces, Inhaling Fumes, Noncompliance with Company PPWIs and SOPs	Utilize Proper PPE, (Face shields and respirators as needed) Eyes on Path and Work Task, Aware of Surroundings, Read Labels/Instructions and follow proper recommendations for material/Chemical handling/mixing, use FRC when handling flammable materials, Competent of and Compliance with Company PPWIs and SOPs.
Chemical & Material Handling -Mixing -Gauging -Blending -Transferring	Not knowing the Chemical/material and risk/hazards involved with handling or mixing certain substances.	An SDS should be consulted for each of these substances to identify the associated hazards: Flammable, Corrosive, Toxic, Harmful, Irritant, Oxidizing or Other. Hazard Ratings (Min, Low, Mod, High, Extreme) and Dangerous. Classification of materials should be identified in the SDS. A substance may have more than one classification. Include all solvents, reactants, drying agents etc. An experienced laboratory worker should be able to read and understand an SDS.
ASSESS LOCATION FOR POTENTIAL HAZARDS	SLIPS-TRIPS-FALLS, H2S, STRUCK BY,	PAY ATTENTION TO SURROUNDINGS REMOVE HAZARDS IF POSSIBLE PROPER PPE
SAFETY HUDDLE TO DISCUSS HAZARDS AND POTENTIAL HAZARDS WHILE SPOTTING EQUIPMENT	NOT UNDERSTANDING OR HEARING JOB STEPS	SPEAK LOUD AND CLEAR-PAY ATTENTION-ASK QUESTIONS
SPOT EQUIPMENT	BACKING INTO OR OVER SOMETHING OR SOMEONE, STRIKING STATIONARY OBJECT	USE SPOTTERS AND MIRRORS BACK SLOW, WATCH SPOTTER, WALK PATH OF TRAVEL AND OBSERVE SURROUNDINGS
RIG UP IRON AND HOSES	SLIPS-TRIPS-FALLS-PINCH POINTS, STRUCK BY, DROPPED OBJECTS, STRAINS	PAY ATTENTION, DON'T RUSH, TWO MAN CARRY, FOLLOW DIRECTIONS, USE PROPER LIFTING TECHNICs,

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PRIME PUMPS	MOVING PARTS PRESSURE	TRAPPED	CLEAR PUMP OF PERSONNEL – SET PRESSURE TRIPS- CHECK VALVES ARE IN PROPER POSITION
SAFETY MEETING	MISCOMMUNICATION		REVIEW ALL JOB PROCEDURES/ HAZARDS WITH ALL PERSONEL INVOLVED, REVIEW MUSTER AREAS AND EMERGENCY PLAN
TEST LINES	LINES LEAKING OR IRON PARTING, PRESSURE		STAY CLEAR OF LINES WHILE UNDER PRESSURE- NEVER HAMMER ON IRON W/ PRESSURE ON IT!!! IRON INSPECTION
PUMP FLUIDS	LEAKS-PUMPING WRONG FLUIDS-VALVES CLOSED- PINCH POINTS Fumes, chemical exposure, chemical burns Chemical exposure related illnesses. Chemical splashes.  Failure to identify hazards, wrong PPE for the job. Miscommunication		START PUMPING SLOWLY- WATCH FOR LEAKS OR RAPID PRESSURE – Check pumping correct system. PAY ATTENTION TO JOB DUTIES Inspect and utilize chemical gear to eliminate or minimize exposure. If any leaks occur leave the area immediately and report it to te supervisor. Contain the leak is safe to do so. In case of a chemical splash, utilize emergency shower trailer, and report the incident to your supervisor, contact workPartners for further instructions. Make sure you are familiar with all instructions given during the JSEA meeting, ask questions if you aren't sure about something, utilize SWAT.
RIG DOWN IRON, HOSES AND LOAD	SLIPS-TRIPS-FALLS- DROPED OBJECTS- PINCH POINTS		WATCH HAND AND FOOT PLACEMENT. DON'T WALK UNDER LOADS BEING LOWERED OR RAISED. DON'T THROW HAMMERS OR HANDLES. DON'T RUSH OR TAKE SHORT CUTS. WORK TOGETHER ASK FOR HELP, OFFER HELP
LEAVE LOCATION	STRIKING OBJECT OR SOMEONE. OBJECTS FALLING FROM TRUCKS. FALLING ASLEEP WHILE DRIVING		USE SPOTTER IF NEEDED. MAKE SURE ALL EQUIPMENT IS SECURE BEFORE MOVING TRUCK. WALK AROUND BEFORE GETTING IN CAB. IF YOU ARE TOO TIRED TO DRIVE, TAKE A NAP BEFORE LEAVING LOCATION. STOP IF YOU BECOME SLEEPY

**REQUIRED PPE**

Check the boxes for all required PPE while conducting work tasks, for additional required PPE, describe in the box next to the "OTHER" field.

<input checked="" type="checkbox"/> HARD HAT	<input checked="" type="checkbox"/> HALF-FACE AIR PURIFYING RESPIRATOR	<input checked="" type="checkbox"/> OTHER:	Goggles
<input checked="" type="checkbox"/> SAFETY GLASSES	<input checked="" type="checkbox"/> PERSONAL MONITOR	<input checked="" type="checkbox"/> OTHER:	Chemical Gear.
<input checked="" type="checkbox"/> FR CLOTHING	<input checked="" type="checkbox"/> H2S <input checked="" type="checkbox"/> O2 <input checked="" type="checkbox"/> LEL <input checked="" type="checkbox"/> CO	<input type="checkbox"/> OTHER:	
<input checked="" type="checkbox"/> SAFETY TOE BOOTS	<input type="checkbox"/> FALL PROTECTION	<input type="checkbox"/> OTHER:	
	<input checked="" type="checkbox"/> HEARING PROTECTION		

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<input checked="" type="checkbox"/> HAND PROTECTION			
---	--	--	--

<b>Permit to Work</b>	
Check the boxes for all required tasks which involve a permit to work, follow the required actions for each task. For tasks conducted simultaneously, all required actions for all tasks should be followed.	
Task	Required Actions
<input type="checkbox"/> Confined Space Entry	<ul style="list-style-type: none"> <li>• Confined Space Entry shall NOT be conducted on a customer location.</li> <li>• Refer to SAF-PR-6005-1 Confined Space Entry</li> <li>• Follow service line specific confined space entry program.</li> <li>• Complete the following forms prior to confined space entry in a CES facility as applicable:               <ul style="list-style-type: none"> <li>○ SAF-FO-6005-1 Confined Space Pre-entry Checklist</li> <li>○ SAF-FO-6005-2 Confined Space Entry Permit</li> </ul> </li> </ul>
<input type="checkbox"/> Critical Lifts	<ul style="list-style-type: none"> <li>• Refer to LFT-WI-6010-11 Critical Lift Planning &amp; Operations</li> <li>• Complete the following forms as applicable prior to conducting lift:               <ul style="list-style-type: none"> <li>○ LFT-FO-6010-1 Critical Lift Determination Worksheet</li> <li>○ LFT-FO-6010-3 Critical Lift Plan</li> </ul> </li> </ul>
<input type="checkbox"/> Lock Out / Tag Out	<ul style="list-style-type: none"> <li>• Follow service line specific LOTO Program</li> <li>• Complete all applicable energy isolation certifications and checklists as applicable</li> </ul>
<input type="checkbox"/> Hot Work	<ul style="list-style-type: none"> <li>• Refer to SAF-PR-6026-1 Hot Work</li> <li>• Complete form SAF-FO-6026-1 CES Hot Work Permit prior to beginning hot work as applicable.</li> </ul>
<input type="checkbox"/> Hydrogen Sulfide (H2S)	<ul style="list-style-type: none"> <li>• Refer to SAF-PR-6017-1 Hydrogen Sulfide</li> <li>• Complete the following forms as applicable prior to performing work:               <ul style="list-style-type: none"> <li>○ SAF-FO-6017-1 Hydrogen Sulfide Pre-Entry Checklist</li> <li>○ SAF-FO-6017-2 Hydrogen Sulfide Entry Permit</li> </ul> </li> </ul>
<input checked="" type="checkbox"/> Working at Heights	<ul style="list-style-type: none"> <li>• This applies to working at heights above 4ft without engineered/administrative controls to prevent falling.</li> <li>• Refer to SAF-PR-6076-1 Fall Protection</li> <li>• Complete for SAF-FO-6076-1 Fall Protection Work Plan as applicable</li> </ul>





# **MACH RESOURCES**

**BARBER CO. KANSAS (NAD27)**

**SEC 33-T34S-R11W**

**SCHOOLEY 4-35-11 2H**

**ORIGINAL WELLPATH**

**Design: ORIGINAL WELLPATH**

## **Standard Survey Report**

**26 January, 2024**

**MACH**<sup>™</sup>  
RESOURCES



<b>Company:</b>	MACH RESOURCES	<b>Local Co-ordinate Reference:</b>	Well SCHOOLEY 4-35-11 2H
<b>Project:</b>	BARBER CO. KANSAS (NAD27)	<b>TVD Reference:</b>	1388' GL + 16' KB @ 1404.00usft (Original Well Elev)
<b>Site:</b>	SEC 33-T34S-R11W	<b>MD Reference:</b>	1388' GL + 16' KB @ 1404.00usft (Original Well Elev)
<b>Well:</b>	SCHOOLEY 4-35-11 2H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	ORIGINAL WELLPATH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	ORIGINAL WELLPATH	<b>Database:</b>	1 - EDM Production

<b>Project</b>	BARBER CO. KANSAS (NAD27)		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Kansas South 1502		

<b>Site</b>	SEC 33-T34S-R11W				
<b>Site Position:</b>		<b>Northing:</b>	134,590.00 usft	<b>Latitude:</b>	37.03629343
<b>From:</b>	Map	<b>Easting:</b>	1,992,356.00 usft	<b>Longitude:</b>	-98.52618559
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "		

<b>Well</b>	SCHOOLEY 4-35-11 2H					
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	134,547.00 usft	<b>Latitude:</b>	37.03617714
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	1,995,240.00 usft	<b>Longitude:</b>	-98.51630602
<b>Position Uncertainty</b>	0.50 usft		<b>Wellhead Elevation:</b>	usft	<b>Ground Level:</b>	1,388.00 usft
<b>Grid Convergence:</b>	-0.01 °					

<b>Wellbore</b>	ORIGINAL WELLPATH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2020	12/28/2023	3.78	64.56	50,421.57802557

<b>Design</b>	ORIGINAL WELLPATH				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	180.00	

<b>Survey Program</b>	<b>Date</b>	1/26/2024			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
137.00	9,694.00	MWD SURVEYS (ORIGINAL WELLPATH)	MWD+IGRF	OWSG MWD + IGRF or WMM	

<b>Survey</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Vertical Section (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.00	0.62	60.74	137.00	0.36	0.65	-0.36	0.45	0.45	0.00	0.00
227.00	0.62	58.28	226.99	0.86	1.49	-0.86	0.03	0.00	-2.73	
283.00	0.84	88.17	282.99	1.03	2.15	-1.03	0.77	0.39	53.38	
350.00	0.88	115.81	349.98	0.82	3.11	-0.82	0.62	0.06	41.25	
404.00	0.57	201.63	403.98	0.39	3.38	-0.39	1.88	-0.57	158.93	
494.00	5.05	265.79	493.85	-0.32	-0.74	0.32	5.37	4.98	71.29	
583.00	5.80	265.22	582.45	-0.98	-9.12	0.98	0.84	0.84	-0.64	



<b>Company:</b>	MACH RESOURCES	<b>Local Co-ordinate Reference:</b>	Well SCHOOLEY 4-35-11 2H
<b>Project:</b>	BARBER CO. KANSAS (NAD27)	<b>TVD Reference:</b>	1388' GL + 16' KB @ 1404.00usft (Original Well Elev)
<b>Site:</b>	SEC 33-T34S-R11W	<b>MD Reference:</b>	1388' GL + 16' KB @ 1404.00usft (Original Well Elev)
<b>Well:</b>	SCHOOLEY 4-35-11 2H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	ORIGINAL WELLPATH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	ORIGINAL WELLPATH	<b>Database:</b>	1 - EDM Production

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
673.00	6.51	265.31	671.93	-1.78	-18.74	1.78	0.79	0.79	0.10	
762.00	7.74	275.15	760.25	-1.65	-29.74	1.65	1.94	1.38	11.06	
851.00	8.79	273.75	848.32	-0.67	-42.49	0.67	1.20	1.18	-1.57	
945.00	9.71	273.00	941.10	0.22	-57.58	-0.22	0.99	0.98	-0.80	
1,035.00	12.92	265.75	1,029.34	-0.13	-75.20	0.13	3.89	3.57	-8.06	
1,125.00	15.96	271.81	1,116.50	-0.49	-97.60	0.49	3.77	3.38	6.73	
1,215.00	17.41	274.05	1,202.71	0.86	-123.40	-0.86	1.76	1.61	2.49	
1,305.00	18.20	274.93	1,288.39	3.01	-150.84	-3.01	0.93	0.88	0.98	
1,396.00	19.34	270.98	1,374.56	4.49	-180.06	-4.49	1.88	1.25	-4.34	
1,490.00	20.00	268.21	1,463.07	4.26	-211.70	-4.26	1.22	0.70	-2.95	
1,584.00	19.38	273.44	1,551.58	4.69	-243.33	-4.69	1.99	-0.66	5.56	
1,679.00	18.33	275.50	1,641.48	7.07	-273.94	-7.07	1.31	-1.11	2.17	
1,773.00	16.48	275.42	1,731.18	9.75	-301.93	-9.75	1.97	-1.97	-0.09	
1,868.00	15.82	275.06	1,822.43	12.16	-328.24	-12.16	0.70	-0.69	-0.38	
1,963.00	14.20	275.11	1,914.18	14.34	-352.75	-14.34	1.71	-1.71	0.05	
2,058.00	14.02	276.47	2,006.32	16.67	-375.79	-16.67	0.40	-0.19	1.43	
2,153.00	12.88	273.88	2,098.71	18.69	-397.79	-18.69	1.36	-1.20	-2.73	
2,247.00	12.18	272.08	2,190.47	19.76	-418.15	-19.76	0.85	-0.74	-1.91	
2,342.00	10.55	269.97	2,283.61	20.12	-436.86	-20.12	1.77	-1.72	-2.22	
2,437.00	9.32	272.74	2,377.18	20.48	-453.24	-20.48	1.39	-1.29	2.92	
2,531.00	8.79	269.62	2,470.01	20.80	-468.03	-20.80	0.77	-0.56	-3.32	
2,626.00	8.70	267.81	2,563.91	20.47	-482.47	-20.47	0.30	-0.09	-1.91	
2,720.00	8.57	267.90	2,656.84	19.94	-496.57	-19.94	0.14	-0.14	0.10	
2,815.00	7.78	265.31	2,750.87	19.16	-510.05	-19.16	0.92	-0.83	-2.73	
2,909.00	6.15	262.01	2,844.18	17.94	-521.38	-17.94	1.78	-1.73	-3.51	
3,004.00	5.58	260.12	2,938.68	16.44	-530.97	-16.44	0.63	-0.60	-1.99	
3,099.00	4.04	263.20	3,033.34	15.25	-538.84	-15.25	1.64	-1.62	3.24	
3,194.00	3.30	276.51	3,128.15	15.16	-544.88	-15.16	1.18	-0.78	14.01	
3,290.00	3.52	276.03	3,223.98	15.79	-550.56	-15.79	0.23	0.23	-0.50	
3,384.00	2.95	280.34	3,317.83	16.52	-555.81	-16.52	0.66	-0.61	4.59	
3,478.00	2.95	280.82	3,411.70	17.41	-560.56	-17.41	0.03	0.00	0.51	
3,572.00	1.67	238.46	3,505.63	17.15	-564.11	-17.15	2.18	-1.36	-45.06	
3,666.00	1.80	244.70	3,599.59	15.80	-566.61	-15.80	0.24	0.14	6.64	
3,761.00	1.80	237.45	3,694.54	14.36	-569.22	-14.36	0.24	0.00	-7.63	
3,855.00	2.15	248.26	3,788.49	12.92	-572.10	-12.92	0.54	0.37	11.50	
3,948.00	1.14	313.43	3,881.45	12.90	-574.39	-12.90	2.11	-1.09	70.08	
4,043.00	1.23	306.49	3,976.43	14.16	-575.90	-14.16	0.18	0.09	-7.31	
4,133.00	1.01	305.52	4,066.42	15.20	-577.32	-15.20	0.25	-0.24	-1.08	
4,195.00	1.45	188.76	4,128.41	14.74	-577.88	-14.74	3.40	0.71	-188.32	
4,227.00	4.70	173.37	4,160.36	13.04	-577.79	-13.04	10.39	10.16	-48.09	
4,275.00	9.71	182.87	4,207.97	7.04	-577.77	-7.04	10.69	10.44	19.79	
4,322.00	14.59	180.49	4,253.90	-2.85	-578.02	2.85	10.44	10.38	-5.06	



<b>Company:</b>	MACH RESOURCES	<b>Local Co-ordinate Reference:</b>	Well SCHOOLEY 4-35-11 2H
<b>Project:</b>	BARBER CO. KANSAS (NAD27)	<b>TVD Reference:</b>	1388' GL + 16' KB @ 1404.00usft (Original Well Elev)
<b>Site:</b>	SEC 33-T34S-R11W	<b>MD Reference:</b>	1388' GL + 16' KB @ 1404.00usft (Original Well Elev)
<b>Well:</b>	SCHOOLEY 4-35-11 2H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	ORIGINAL WELLPATH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	ORIGINAL WELLPATH	<b>Database:</b>	1 - EDM Production

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,369.00	20.09	180.54	4,298.75	-16.85	-578.15	16.85	11.70	11.70	0.11	
4,416.00	23.43	182.38	4,342.39	-34.26	-578.61	34.26	7.25	7.11	3.91	
4,463.00	27.87	181.37	4,384.75	-54.59	-579.26	54.59	9.49	9.45	-2.15	
4,510.00	31.87	179.92	4,425.50	-77.99	-579.51	77.99	8.65	8.51	-3.09	
4,557.00	34.99	177.59	4,464.72	-103.87	-578.92	103.87	7.18	6.64	-4.96	
4,604.00	37.98	176.98	4,502.50	-131.78	-577.59	131.78	6.41	6.36	-1.30	
4,651.00	41.58	177.20	4,538.62	-161.81	-576.07	161.81	7.67	7.66	0.47	
4,699.00	44.53	177.95	4,573.69	-194.55	-574.69	194.55	6.24	6.15	1.56	
4,746.00	47.56	176.45	4,606.31	-228.34	-573.02	228.34	6.84	6.45	-3.19	
4,776.00	50.64	176.71	4,625.95	-250.97	-571.67	250.97	10.29	10.27	0.87	
4,793.00	51.65	176.98	4,636.61	-264.19	-570.94	264.19	6.07	5.94	1.59	
4,840.00	55.30	177.95	4,664.58	-301.91	-569.28	301.91	7.94	7.77	2.06	
4,887.00	61.23	177.64	4,689.29	-341.84	-567.74	341.84	12.63	12.62	-0.66	
4,934.00	62.77	177.90	4,711.36	-383.30	-566.13	383.30	3.31	3.28	0.55	
4,981.00	63.25	177.59	4,732.69	-425.15	-564.48	425.15	1.18	1.02	-0.66	
5,063.00	65.89	177.68	4,767.89	-499.14	-561.42	499.14	3.22	3.22	0.11	
5,074.00	66.77	177.42	4,772.31	-509.20	-560.99	509.20	8.29	8.00	-2.36	
5,086.00	68.97	176.98	4,776.83	-520.31	-560.45	520.31	18.65	18.33	-3.67	
5,121.00	74.37	176.80	4,787.83	-553.47	-558.65	553.47	15.44	15.43	-0.51	
5,133.00	76.18	176.98	4,790.88	-565.06	-558.02	565.06	15.15	15.08	1.50	
5,168.00	78.11	176.76	4,798.67	-599.13	-556.15	599.13	5.55	5.51	-0.63	
5,199.00	80.92	177.42	4,804.31	-629.57	-554.61	629.57	9.30	9.06	2.13	
5,214.00	82.07	177.64	4,806.53	-644.39	-553.97	644.39	7.80	7.67	1.47	
5,280.00	83.43	178.82	4,814.86	-709.83	-551.95	709.83	2.72	2.06	1.79	
5,327.00	83.65	178.69	4,820.15	-756.52	-550.93	756.52	0.54	0.47	-0.28	
5,373.00	83.91	178.65	4,825.13	-802.23	-549.87	802.23	0.57	0.57	-0.09	
5,420.00	83.91	178.65	4,830.12	-848.95	-548.77	848.95	0.00	0.00	0.00	
5,468.00	84.22	178.87	4,835.08	-896.69	-547.74	896.69	0.79	0.65	0.46	
5,515.00	87.47	178.74	4,838.49	-943.55	-546.76	943.55	6.92	6.91	-0.28	
5,562.00	89.71	178.82	4,839.64	-990.52	-545.76	990.52	4.77	4.77	0.17	
5,609.00	89.89	178.74	4,839.81	-1,037.51	-544.76	1,037.51	0.42	0.38	-0.17	
5,656.00	90.07	178.52	4,839.82	-1,084.49	-543.63	1,084.49	0.60	0.38	-0.47	
5,751.00	90.24	178.43	4,839.57	-1,179.46	-541.11	1,179.46	0.20	0.18	-0.09	
5,844.00	89.93	178.52	4,839.43	-1,272.43	-538.63	1,272.43	0.35	-0.33	0.10	
5,935.00	89.23	178.25	4,840.09	-1,363.39	-536.07	1,363.39	0.82	-0.77	-0.30	
6,025.00	89.01	178.38	4,841.48	-1,453.34	-533.42	1,453.34	0.28	-0.24	0.14	
6,114.00	88.79	177.77	4,843.19	-1,542.27	-530.43	1,542.27	0.73	-0.25	-0.69	
6,202.00	88.70	178.16	4,845.11	-1,630.19	-527.31	1,630.19	0.45	-0.10	0.44	
6,292.00	89.01	178.65	4,846.91	-1,720.14	-524.80	1,720.14	0.64	0.34	0.54	
6,382.00	89.76	179.62	4,847.88	-1,810.12	-523.44	1,810.12	1.36	0.83	1.08	
6,472.00	90.59	180.01	4,847.60	-1,900.12	-523.15	1,900.12	1.02	0.92	0.43	
6,560.00	90.73	181.68	4,846.59	-1,988.10	-524.45	1,988.10	1.90	0.16	1.90	

<b>Company:</b>	MACH RESOURCES	<b>Local Co-ordinate Reference:</b>	Well SCHOOLEY 4-35-11 2H
<b>Project:</b>	BARBER CO. KANSAS (NAD27)	<b>TVD Reference:</b>	1388' GL + 16' KB @ 1404.00usft (Original Well Elev)
<b>Site:</b>	SEC 33-T34S-R11W	<b>MD Reference:</b>	1388' GL + 16' KB @ 1404.00usft (Original Well Elev)
<b>Well:</b>	SCHOOLEY 4-35-11 2H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	ORIGINAL WELLPATH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	ORIGINAL WELLPATH	<b>Database:</b>	1 - EDM Production

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
6,650.00	89.98	181.59	4,846.03	-2,078.06	-527.02	2,078.06	0.84	-0.83	-0.10	
6,739.00	90.64	182.43	4,845.55	-2,167.01	-530.14	2,167.01	1.20	0.74	0.94	
6,794.00	90.64	182.03	4,844.93	-2,221.96	-532.28	2,221.96	0.73	0.00	-0.73	
6,829.00	89.14	181.72	4,845.00	-2,256.94	-533.43	2,256.94	4.38	-4.29	-0.89	
6,873.00	88.84	182.03	4,845.78	-2,300.91	-534.87	2,300.91	0.98	-0.68	0.70	
6,920.00	89.10	181.99	4,846.62	-2,347.87	-536.51	2,347.87	0.56	0.55	-0.09	
7,009.00	89.76	181.94	4,847.51	-2,436.82	-539.57	2,436.82	0.74	0.74	-0.06	
7,099.00	90.24	181.81	4,847.51	-2,526.77	-542.51	2,526.77	0.55	0.53	-0.14	
7,190.00	90.64	181.64	4,846.81	-2,617.72	-545.25	2,617.72	0.48	0.44	-0.19	
7,284.00	89.32	181.07	4,846.84	-2,711.70	-547.47	2,711.70	1.53	-1.40	-0.61	
7,379.00	89.71	180.14	4,847.65	-2,806.69	-548.48	2,806.69	1.06	0.41	-0.98	
7,472.00	90.29	180.19	4,847.65	-2,899.69	-548.74	2,899.69	0.63	0.62	0.05	
7,566.00	90.86	180.19	4,846.70	-2,993.68	-549.05	2,993.68	0.61	0.61	0.00	
7,661.00	90.68	179.53	4,845.43	-3,088.67	-548.82	3,088.67	0.72	-0.19	-0.69	
7,756.00	89.58	179.62	4,845.21	-3,183.67	-548.12	3,183.67	1.16	-1.16	0.09	
7,850.00	90.24	179.57	4,845.36	-3,277.66	-547.45	3,277.66	0.70	0.70	-0.05	
7,943.00	89.71	179.62	4,845.40	-3,370.66	-546.80	3,370.66	0.57	-0.57	0.05	
8,037.00	90.07	179.62	4,845.58	-3,464.66	-546.17	3,464.66	0.38	0.38	0.00	
8,133.00	89.32	180.19	4,846.09	-3,560.66	-546.01	3,560.66	0.98	-0.78	0.59	
8,227.00	90.51	180.54	4,846.23	-3,654.65	-546.61	3,654.65	1.32	1.27	0.37	
8,322.00	89.85	179.62	4,845.93	-3,749.65	-546.74	3,749.65	1.19	-0.69	-0.97	
8,416.00	88.40	179.79	4,847.37	-3,843.63	-546.26	3,843.63	1.55	-1.54	0.18	
8,510.00	89.14	180.23	4,849.38	-3,937.61	-546.28	3,937.61	0.92	0.79	0.47	
8,605.00	88.35	180.45	4,851.47	-4,032.59	-546.84	4,032.59	0.86	-0.83	0.23	
8,701.00	88.40	179.66	4,854.19	-4,128.55	-546.93	4,128.55	0.82	0.05	-0.82	
8,796.00	88.00	178.82	4,857.17	-4,223.49	-545.67	4,223.49	0.98	-0.42	-0.88	
8,890.00	88.70	178.52	4,859.88	-4,317.43	-543.49	4,317.43	0.81	0.74	-0.32	
8,985.00	91.12	179.48	4,860.03	-4,412.40	-541.83	4,412.40	2.74	2.55	1.01	
9,080.00	92.40	179.88	4,857.11	-4,507.36	-541.30	4,507.36	1.41	1.35	0.42	
9,176.00	90.51	180.41	4,854.67	-4,603.32	-541.55	4,603.32	2.04	-1.97	0.55	
9,270.00	90.90	180.63	4,853.52	-4,697.31	-542.40	4,697.31	0.48	0.41	0.23	
9,365.00	91.43	180.23	4,851.58	-4,792.29	-543.11	4,792.29	0.70	0.56	-0.42	
9,460.00	91.21	180.41	4,849.40	-4,887.26	-543.64	4,887.26	0.30	-0.23	0.19	
9,555.00	90.81	180.14	4,847.72	-4,982.24	-544.10	4,982.24	0.51	-0.42	-0.28	
9,638.00	89.45	180.41	4,847.53	-5,065.24	-544.50	5,065.24	1.67	-1.64	0.33	
<b>LS: 9638' MD 4847.53' TVD</b>										
9,694.00	89.45	180.41	4,848.07	-5,121.23	-544.90	5,121.23	0.00	0.00	0.00	
<b>PTB: 9694' MD 4848.07' TVD</b>										



<b>Company:</b>	MACH RESOURCES	<b>Local Co-ordinate Reference:</b>	Well SCHOOLEY 4-35-11 2H
<b>Project:</b>	BARBER CO. KANSAS (NAD27)	<b>TVD Reference:</b>	1388' GL + 16' KB @ 1404.00usft (Original Well Elev)
<b>Site:</b>	SEC 33-T34S-R11W	<b>MD Reference:</b>	1388' GL + 16' KB @ 1404.00usft (Original Well Elev)
<b>Well:</b>	SCHOOLEY 4-35-11 2H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	ORIGINAL WELLPATH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	ORIGINAL WELLPATH	<b>Database:</b>	1 - EDM Production

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,638.00	4,847.53	-5,065.24	-544.50	LS: 9638' MD 4847.53' TVD
9,694.00	4,848.07	-5,121.23	-544.90	PTB: 9694' MD 4848.07' TVD

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



Prepared By: Tyler Howle

# Schooley 4-35-11 2H Final 2/13/2024 Completion Procedure Mississippi Formation

AFE#DC23120

Surface Location: 160' FSL and 1165' FEL in Section 33-34S-11W  
Bottom Hole Location: 339' FSL and 1688' FEL in Section 4-35S-11W  
Latitude 37.036176 Longitude -98.516306  
Barber County, KS  
API #15-007-24491-01-00

KB: 16' AGL  
GLE: 1388'  
TD: 9694' MD (4848' TVD)  
PBTD: 9451' MD (Landing Collar)

### Casing Summary:

All Table Values Are Listed Without Safety Factor

Size	Depth (ft)	Weight #/ft	Grade PSI	Connection	ID (in)	Drift (in)	Burst (psi)	Collapse (psi)	Tension (lbs)	Capacity (bbl/ft)
9 5/8"	334'	40	J-55	STC	8.840	8.750	3,950	2,570	453,000	0.0759
7"	5,243'	26	P-110	BPN	6.276	6.151	9,950	6,230	693,000	0.0383
4-1/2"	5081' - 9687'	13.5	P-110	BTC	3.920	3.795	12,410	10,670	422,000	0.0149
2-7/8"	TBD	6.5	J-55	EUE	2.441	2.347	7680	7260	99660	0.00579

Maximum allowable pressure during frac is 5,000 psi

Surface: 9 5/8" 40# J-55 STC (50 bbl cement to surface)  
Intermediate: 7" 26# P-110 BPN  
Prod Liner: 4-1/2" 13.5# P-110 BTC (OH packers, no cement)

### Wellhead:

9-5/8" SOW X 11" 5k Casing Head (A Section)

### Direction To Location:

From N 7th St and Main St, Kiowa, KS. West on Main St 1.7 mi, north 1.0 mi on Red Dust Rd.

### Directional:

Horizontal well. KOP at 4227'. Build Section from 4227' - 5656' MD. TD at 9694' MD ; 4848' TVD. Average TVD in lateral is ~4847'.  
Bottom Hole Location: 339' FSL and 1688' FEL in Section 4-35S-11W  
Heel hard line is 330' FSL. Toe Hard line is 330' FNL. Based on the final directional drilling survey, the wellbore does not cross either heel or toe hard line.

**Current Well Status:**

Newly drilled well ready for completion.

**Objective:**

Complete Mississippian lateral with 10 stages of OH packer/slickwater frac.

**First Responder Emergency Contacts**

**Alfalfa/Woods County Emergency Contacts**

	<b>Kiowa</b>	<b>Alva</b>
<b>Fire</b>	620-825-4886	580-328-5510
<b>Ambulance</b>	911 or 620-825-4112	911 or 580-327-2300
<b>Sheriff</b>	620-886-5678	580-327-3434

**Hospital:** Share Medical Center  
 Hwy 60. ~0.1 mi North and East of Hwy 270 and Hwy 60 Jct  
 Alva, OK 73717  
 ph: (580) 327-2800

**Mach Emergency Contacts**

Notify one of the individuals listed below, as soon as reasonably possible, for any injury incident requiring transport for medical attention, any incident which has impacted or has the potential to impact the public, any spill in excess of 10 bbl which has breached containment, or any property damage expected to exceed \$100,000. Continue notification attempts in sequential order until someone has been reached. Voicemail, email, and text are not acceptable means of notification.

<u>Contact</u>	<u>Cell Number</u>
Justin Flanagan	405-435-1100
Randy Summers	405-423-3367
Tyler Howle	405-234-0004
Clarence Watts	405-546-9694
Dustin Elmore	580-747-6691
Rick Hughes	405-249-0484

## The **SAFETY** of **OUR TEAM** and the **PROTECTION** of **OUR ENVIRONMENT** is **OUR RESPONSIBILITY**

### **S**top work authority

- Each of us have not only the authority but the responsibility to stop any operation, at any time, if we feel the potential exists for either ourselves or our team to be exposed to unsafe conditions.
- No operation should be resumed until all involved are satisfied that it can be done safely.
- What if you saw an operation that you knew was unsafe, you decided to look the other way, and one of your team members was seriously injured or killed--how would that affect the rest of your life!

### **A**ccountability

- Working safely is something each of us must commit to do every day. It is our responsibility.
- Make it your priority to constantly be aware of hazards that could put your personal safety or the safety of our team at risk.
- If you or your team are working in an unsafe manner and have not improved behavior after counseling, you may be asked not to return to work.

### **F**amily Matters

- Serious injuries and fatalities have occurred in operations just like ours.
- It can happen to you.
- How would your family's lives be changed if you were no longer able to provide for them due to injury or death?

### **E**valuate

- Every job can be performed safely.
- Unnecessary risks are not to be taken to complete any job.
- Complete a job safety analysis prior to beginning any task. Take the time to ask what could happen? What can be done to ensure that the job will be completed without incident?

### **Pre Job Checklist:**

- 1) Insure all ratholes and ditches used in the drilling operation have been filled and that location is free of slip/trip/fall hazards. Ensure portable toilets and trash trailers are made available as required. Keep location and surrounding areas free of debris. **Report any existing safety or environmental issues prior to beginning job.**
- 2) Install anchors and/or pull test as required. Install riser and ball valve with bull plug and 2000# gauge on surface casing to above ground level. **Open surface casing valve in cellar** and fill cellar as required to eliminate/minimize confined space risk.
- 3) Evaluate wellhead height and provide work platforms, man lifts, and fall protection as needed to provide safe access.
- 4) Check and monitor surface casing, intermediate casing, and tubing pressures. Record pressures on report daily.

### **Procedure**

#### **Frac Operations EH&S Focus**

**A high percentage of EH&S incidents in frac operations are related to RU and RD activity. Please focus on the following during frac ops:**

- Ensuring that everyone understands they are responsible for their own safety plus the safety of those working around them
- Ensuring that everyone is familiar with and understands their responsibility regarding Stop Work Authority
- Ensuring that everyone is familiar with and understands the 10 Rules to Protect Ourselves and our Team
- Discuss the importance of wearing PPE, lifting hazards, chemical hazards, weather hazards, simultaneous operations hazards, overhead load hazards and live perf gun hazards during safety meetings and JSAs
- Keep all unnecessary personnel away from overhead loads, pressurized lines and perforating guns at all times
- Adjust work pace or shut down ops as weather conditions dictate (heat, cold, storms, etc)

#### **Notify OCC 48 hours prior to beginning frac operations.**

- 1) Set 8 frac tanks and 2 acid tanks on location. RU water transfer with transfer line(s) from the frac pit to the frac tanks on location. Be prepared to transfer fresh water at a rate of 65 bpm throughout frac. Inspect tanks and verify that caps are installed in all frac tanks prior to filling. Inspect tanks for leaks during and after filling and monitor for leaks from the time frac tanks are filled until emptied.
- 2) NU 7-1/16" 5k frac stack. Pressure test lines and frac head to 5,000 psi. Set electronic kick-out to 4,800 psi. **Maximum allowable surface pressure is 5,000 psi.**
- 3) **Open well and pressure up on casing to 2,500 psi. Hold 2 minutes. Increase pressure to 3,000 psi and hold 2 min (ensuring OH packers set). Increase pressure until P-sleeve shifts open (pinned to open ~4,000 psi).**

4) Frac the MISSISSIPPI (Stage 1) as follows:

NOTE: FR concentration should be kept as low as possible throughout job in order to obtain a minimum rate of 65 bpm. Do not exceed 0.75 gal/1000 concentration of FR without prior discussion with engineer.

**STAGE 1**

Top Perf @		9,451'					
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min
Slickwater	20	2,500	60				0.7
15% HCL	80	1,000	24				0.3
Slickwater	100	124,200	2957				37.0
<b>TOTAL</b>		<b>127,700</b>	<b>3,040</b>			-	<b>38</b>

**Drop Stage 2 ball according to packer sheet. Drop rate to 10 bpm 50 bbls before seating ball.**

Frac the MISSISSIPPI (Stage 2) as follows:

**STAGE 2**

Top Perf @		8,995'					
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min
Slickwater	20	2,500	60				0.7
15% HCL	80	1,000	24				0.3
Slickwater	100	124,200	2957				37.0
<b>TOTAL</b>		<b>127,700</b>	<b>3,040</b>			-	<b>38</b>

**Drop Stage 3 ball according to packer sheet. Drop rate to 10 bpm 50 bbls before seating ball.**

Frac the MISSISSIPPI (Stage 3) as follows:

**STAGE 3**

Top Perf @		8,584'					
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min
Slickwater	20	2,500	60				0.7
15% HCL	80	1,000	24				0.3
Slickwater	100	124,200	2957				37.0
<b>TOTAL</b>		<b>127,700</b>	<b>3,040</b>			-	<b>38</b>

**Drop Stage 4 ball according to packer sheet. Drop rate to 10 bpm 50 bbls before seating ball.**

Frac the MISSISSIPPI (Stage 4) as follows:

**STAGE 4**

Top Perf @		8,127'					
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min
Slickwater	20	2,500	60				0.7
15% HCL	80	1,000	24				0.3
Slickwater	100	124,200	2957				37.0
<b>TOTAL</b>		<b>127,700</b>	<b>3,040</b>			-	<b>38</b>

**Drop Stage 5 ball according to packer sheet. Drop rate to 10 bpm 50 bbls before seating ball.**

Frac the MISSISSIPPI (Stage 5) as follows:

**STAGE 5**

Top Perf @		7,671'					
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min
Slickwater	20	2,500	60				0.7
15% HCL	80	1,000	24				0.3
Slickwater	100	124,200	2957				37.0
<b>TOTAL</b>		<b>127,700</b>	<b>3,040</b>			-	<b>38</b>

**Drop Stage 6 ball accroding to packer sheet. Drop rate to 10 bpm 50 bbls before seating ball.**

Frac the MISSISSIPPI (Stage 6) as follows:

**STAGE 6**

Fluid	Top Perf @		7,214'		Prop	Prop Con	Prop, lbs	Time, min
	Rate	Vol, gal	Vol, bbl	Prop				
Slickwater	20	2,500	60				0.7	
15% HCL	80	1,000	24				0.3	
Slickwater	100	124,200	2957				37.0	
<b>TOTAL</b>		<b>127,700</b>	<b>3,040</b>			-	<b>38</b>	

**Drop Stage 7 ball accroding to packer sheet. Drop rate to 10 bpm 50 bbls before seating ball.**

Frac the MISSISSIPPI (Stage 7) as follows:

**STAGE 7**

Fluid	Top Perf @		6,803'		Prop	Prop Con	Prop, lbs	Time, min
	Rate	Vol, gal	Vol, bbl	Prop				
Slickwater	20	2,500	60				0.7	
15% HCL	80	1,000	24				0.3	
Slickwater	100	124,200	2957				37.0	
<b>TOTAL</b>		<b>127,700</b>	<b>3,040</b>			-	<b>38</b>	

**Drop Stage 8 ball accroding to packer sheet. Drop rate to 10 bpm 50 bbls before seating ball.**

Frac the MISSISSIPPI (Stage 8) as follows:

**STAGE 8**

Fluid	Top Perf @		6,355'		Prop	Prop Con	Prop, lbs	Time, min
	Rate	Vol, gal	Vol, bbl	Prop				
Slickwater	20	2,500	60				0.7	
15% HCL	80	1,000	24				0.3	
Slickwater	100	124,200	2957				37.0	
<b>TOTAL</b>		<b>127,700</b>	<b>3,040</b>			-	<b>38</b>	

**Drop Stage 9 ball accroding to packer sheet. Drop rate to 10 bpm 50 bbls before seating ball.**

Frac the MISSISSIPPI (Stage 9) as follows:

**STAGE 9**

Fluid	Top Perf @		5,903'		Prop	Prop Con	Prop, lbs	Time, min
	Rate	Vol, gal	Vol, bbl	Prop				
Slickwater	20	2,500	60				0.7	
15% HCL	80	1,000	24				0.3	
Slickwater	100	124,200	2957				37.0	
<b>TOTAL</b>		<b>127,700</b>	<b>3,040</b>			-	<b>38</b>	

**Drop Stage 10 ball accroding to packer sheet. Drop rate to 10 bpm 50 bbls before seating ball.**

Frac the MISSISSIPPI (Stage 10) as follows:

**STAGE 10**

Fluid	Top Perf @		5,474'		Prop	Prop Con	Prop, lbs	Time, min
	Rate	Vol, gal	Vol, bbl	Prop				
Slickwater	20	2,500	60				0.7	
15% HCL	80	1,000	24				0.3	
Slickwater	100	124,200	2957				37.0	
<b>TOTAL</b>		<b>127,700</b>	<b>3,040</b>			-	<b>38</b>	

**Total Frac Job Volumes: 30,405 bbls - lbs**

5) RDMO frac crew. Release all support equipment not needed during tube-up.

### Well Service Unit Operations EH&S Focus

WSU operations account for a high percentage of EH&S incidents in Miss completion operations. Please focus on the following prior to and during WSU ops:

- Ensuring that everyone understands they are responsible for their own safety plus the safety of those working around them
- Ensuring that everyone is familiar with and understands their responsibility regarding Stop Work Authority
- Ensuring that everyone is familiar with and understands the 10 Rules to Protect Ourselves and our Team
- Conducting rig inspections and correcting any deficiencies identified
- Adjusting work pace or shut down ops as weather conditions dictate (heat, cold, storms, etc)

6) Set and/or pull test rig anchors as required. MIRU WSU and supporting equipment.

7) Unload and talley +/- 5,050' of 2-7/8" 6.5# L-80 EUE tbg.

8) TIH with ESP as per designed. (Bottom of ESP at +/-5,050')

9) NU 7-1/16" 5k x 2-7/8" 5k production tree.

10) Send flowback reports to flowback distribution list at the following times: 6 am, 1 pm, and 9 pm.

## Notes

- 1) Hold safety meeting/JSA before commencing operations each morning, before each shift change, and before commencing any new phase of an operation
- 2) Report any injuries, spills or releases to Justin Flanagan, Tyler Howle, Dustin Elmore, Andrew Whiteneck or Rick Hughes as soon as reasonably possible.
- 3) Sign all field tickets. Inform all vendors that a signed field ticket **must** accompany invoice before payment will be authorized.
- 4) Fill out the morning report in Wellview and sync prior to 6 am each day

## MACH RESOURCES OPERATIONS CONTACT LIST

Mach Resources  
14201 Wireless Way, Suite 300  
Oklahoma City, OK 73134

Rick Hughes: VP|Operations  
405-252-8151|Office  
405-249-0484|Mobile  
[rhughes@machresources.com](mailto:rhughes@machresources.com)

Tyler Howle: Completions Engineer  
405-252-8150|Office  
405-234-0004|Mobile  
[thowle@machresources.com](mailto:thowle@machresources.com)

Dustin Elmore: Sr Production Engineer  
405-252-8152|Office  
580-747-6691|Mobile  
[delmore@machresources.com](mailto:delmore@machresources.com)

Clarence Watts  
405-546-9694|Mobile  
[cwatts@machresources.com](mailto:cwatts@machresources.com)

<b>Lease :</b>	Schooley 4-35-11 2H										
<b>API No:</b>	15-007-24491-01-00										
		<b>Size</b>	<b>Weight</b>	<b>Grade</b>	<b>Thread</b>	<b>Depth (ft)</b>	<b>ID (in)</b>	<b>Drift</b>	<b>Collapse</b>	<b>Burst</b>	<b>BBL/Ft</b>
<b>KB :</b>	16'	9 5/8"	40.0	J-55	STC	334	8.840	8.750	2570	3950	0.0759
<b>GL:</b>	1,388'	7"	26.0	P-110	BPN	5243	6.276	6.151	6230	9950	0.0383
<b>Legals :</b>											
		4-1/2"	13.5	P-110	BTC	5081' - 9687'	3.920	3.795	10670	12410	0.0149
<b>County:</b>	Barber										
<b>State:</b>	KS										
<b>Spud:</b>		<b>Size</b>	<b>Weight</b>	<b>Grade</b>	<b>Thread</b>	<b>Depth</b>	<b>ID</b>	<b>Drift</b>	<b>Collapse</b>	<b>Burst</b>	<b>BBL/Ft</b>
<b>RR:</b>		2-7/8"	6.5	J-55	EUE	TBD	2.441	2.347	7680	7260	0.00579
<b>Latitude:</b>	37.036176000										
<b>Longitude:</b>	-98.516306000										

**Current WBD xx/xx/15 TJH**

**Key Depths (ft)**

TD	9,694
TVD	4,847
PBTD	9,451
Kick Off Points	4,227
Landing Point	5,656
Radius of Curve	910
EST. top of Cement	

**Comments on the Cement Job**

9 5/8" Full Rtms. BP. Circ 50 bbl to sfc

7" Csg - Bump plug: YES, TOC 3107-Calc; Full Rtms  
- 4 1/2" liner - No Cement

**Highlights**

Est. BHT	130	F
Est. BHP	1,696	psi
Completed Lat Length	4,451	ft
Fluid in the wellbore	8.33	ppg Water

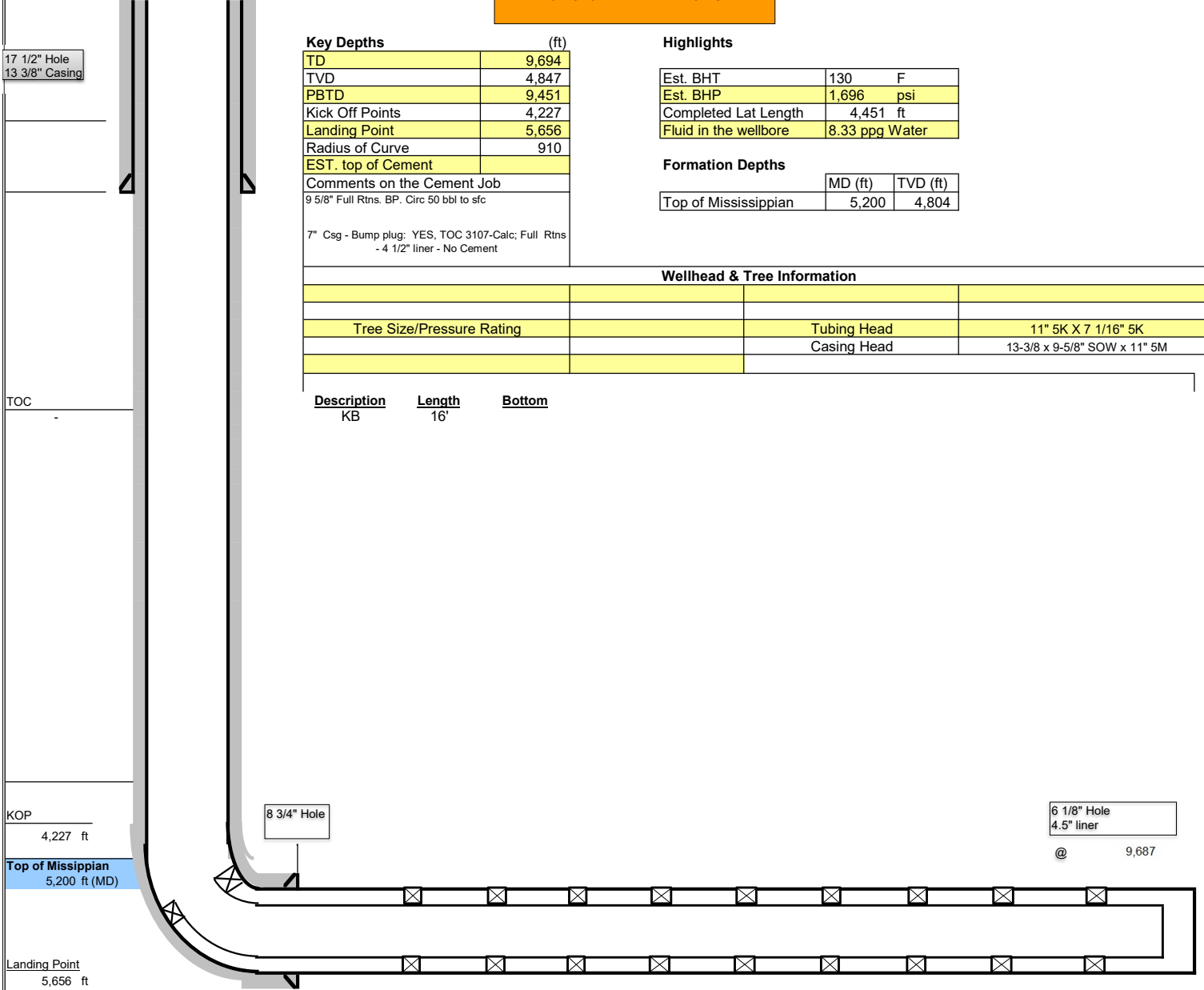
**Formation Depths**

	MD (ft)	TVD (ft)
Top of Mississippian	5,200	4,804

**Wellhead & Tree Information**

<b>Tree Size/Pressure Rating</b>	<b>Tubing Head</b>	11" 5K X 7 1/16" 5K
	<b>Casing Head</b>	13-3/8 x 9-5/8" SOW x 11" 5M

Description	Length	Bottom
KB	16'	



TD: 9,694 ft  
PBTD: 9,451 ft  
TVD: 4,847 ft

	Designed			Actual	Ball	Stage
	Bottom	Length	Top			
TD	9,694'					
P-Sleeve #1	9,458'	3'	9,455'	9,451'		1
Packer #1	9,235'	4'	9,231'	9,223'		
Sleeve #2	9,015'	4'	9,011'	8,995'	3.125"	2
Packer #2	8,791'	4'	8,787'	8,766'		
Sleeve #3	8,571'	4'	8,567'	8,584'	3.188"	3
Packer #3	8,347'	4'	8,343'	8,355'		
Sleeve #4	8,127'	4'	8,123'	8,127'	3.250"	4
Packer #4	7,903'	4'	7,899'	7,899'		
Sleeve #5	7,683'	4'	7,679'	7,671'	3.312"	5
Packer #5	7,459'	4'	7,455'	7,442'		
Sleeve #6	7,239'	4'	7,235'	7,214'	3.375"	6
Packer #6	7,015'	4'	7,010'	6,986'		
Sleeve #7	6,795'	4'	6,791'	6,803'	3.437"	7
Packer #7	6,570'	4'	6,566'	6,574'		
Sleeve #8	6,350'	4'	6,346'	6,355'	3.500"	8
Packer #8	6,126'	4'	6,122'	6,108'		
Sleeve #9	5,906'	4'	5,902'	5,903'	3.562"	9
Packer #9	5,682'	4'	5,678'	5,657'		
Sleeve #10	5,462'	4'	5,458'	5,474'	3.625"	10
7" Shoe	5,243'					

Directional Survey Calculations	Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (ft)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)	FNL	FSL	FWL	FEL
	SHL	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-161	5461	4181
BHL	9694	89.45	180.41	4848.07	-5121.23	-544.90	5121.23	0.00	4962	339	3669	1688
Mississippian Entry	5200	81.00	177.43	4804.46	-630.55	-554.57	630.55	9.20	471	4830	3631	1718
Top OH	5243	82.67	178.16	4810.19	-673.14	-553.08	673.14	5.57	514	4787	3632	1717
Bottom OH	9694	89.45	180.41	4848.07	-5121.23	-544.90	5121.23	0.00	4962	339	3669	1688

Survey Points	NW Corner XY Coord	X	Y	Surface XY	North Line slope	m	
						NE Corner XY Coord	SE Corner XY Coord
		1991058	134395		-0.002056844		
		1991024	129090	1995240	0.004529156		
		1996406	134384		-0.000933184		
		1996382	129085		0.006409048		

	Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (deg)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)	FNL	FSL	FWL	FEL
										-161	5461	4181
	137.00	0.62	60.74	137.00	0.36	0.65	-0.36	0.45	-161	5461	4182	1166
	227.00	0.62	58.28	226.99	0.86	1.49	-0.86	0.03	-161	5462	4183	1165
	283.00	0.84	88.17	282.99	1.03	2.15	-1.03	0.77	-162	5462	4183	1165
	350.00	0.88	115.81	349.98	0.82	3.11	-0.82	0.62	-161	5462	4184	1164
	404.00	0.57	201.63	403.98	0.39	3.38	-0.39	1.88	-161	5461	4184	1163
	494.00	5.05	265.79	493.85	-0.32	-0.74	0.32	5.37	-160	5461	4180	1167
	583.00	5.80	265.22	582.45	-0.98	-9.12	0.98	0.84	-160	5460	4172	1176
	673.00	6.51	265.31	671.93	-1.78	-18.74	1.78	0.79	-159	5459	4162	1185
	762.00	7.74	275.15	760.25	-1.65	-29.74	1.65	1.94	-159	5459	4151	1196
	851.00	8.79	273.75	848.32	-0.67	-42.49	0.67	1.20	-160	5460	4139	1209
	945.00	9.71	273.00	941.10	0.22	-57.58	-0.22	0.99	-161	5461	4123	1224
	1,035.00	12.92	265.75	1,029.34	-0.13	-75.20	0.13	3.89	-160	5461	4106	1242
	1,125.00	15.96	271.81	1,116.50	-0.49	-97.60	0.49	3.77	-160	5460	4083	1264
	1,215.00	17.41	274.05	1,202.71	0.86	-123.40	-0.86	1.76	-161	5462	4058	1290
	1,305.00	18.20	274.93	1,288.39	3.01	-150.84	-3.01	0.93	-163	5464	4030	1318
	1,396.00	19.34	270.98	1,374.56	4.49	-180.06	-4.49	1.88	-165	5465	4001	1347
	1,490.00	20.00	268.21	1,463.07	4.26	-211.70	-4.26	1.22	-164	5465	3969	1378
	1,584.00	19.38	273.44	1,551.58	4.69	-243.33	-4.69	1.99	-165	5465	3938	1410
	1,679.00	18.33	275.50	1,641.48	7.07	-273.94	-7.07	1.31	-167	5468	3907	1441
	1,773.00	16.48	275.42	1,731.18	9.75	-301.93	-9.75	1.97	-170	5470	3879	1469
	1,868.00	15.82	275.06	1,822.43	12.16	-328.24	-12.16	0.70	-172	5473	3853	1495
	1,963.00	14.20	275.11	1,914.18	14.34	-352.75	-14.34	1.71	-174	5475	3828	1520
	2,058.00	14.02	276.47	2,006.32	16.67	-375.79	-16.67	0.40	-177	5477	3805	1543
	2,153.00	12.88	273.88	2,098.71	18.69	-397.79	-18.69	1.36	-178	5479	3783	1565
	2,247.00	12.18	272.08	2,190.47	19.76	-418.15	-19.76	0.85	-179	5480	3763	1585
	2,342.00	10.55	269.97	2,283.61	20.12	-436.86	-20.12	1.77	-180	5481	3744	1604
	2,437.00	9.32	272.74	2,377.18	20.48	-453.24	-20.48	1.39	-180	5481	3728	1620
	2,531.00	8.79	269.62	2,470.01	20.80	-468.03	-20.80	0.77	-180	5481	3713	1635
	2,626.00	8.70	267.81	2,563.91	20.47	-482.47	-20.47	0.30	-180	5481	3698	1649
	2,720.00	8.57	267.90	2,656.84	19.94	-496.57	-19.94	0.14	-180	5480	3684	1663
	2,815.00	7.78	265.31	2,750.87	19.16	-510.05	-19.16	0.92	-179	5480	3671	1677
	2,909.00	6.15	262.01	2,844.18	17.94	-521.38	-17.94	1.78	-177	5478	3660	1688
<b>Top of Tangent @ 0'</b>	3,004.00	5.58	260.12	2,938.68	16.44	-530.97	-16.44	0.63	-176	5477	3650	1698
	3,099.00	4.04	263.20	3,033.34	15.25	-538.84	-15.25	1.64	-175	5476	3642	1706
	3,194.00	3.30	276.51	3,128.15	15.16	-544.88	-15.16	1.18	-175	5476	3636	1712
	3,290.00	3.52	276.03	3,223.98	15.79	-550.56	-15.79	0.23	-175	5476	3630	1717
	3,384.00	2.95	280.34	3,317.83	16.52	-555.81	-16.52	0.66	-176	5477	3625	1723
<b>Btm of Tangent @ 0'</b>	3,478.00	2.95	280.82	3,411.70	17.41	-560.56	-17.41	0.03	-177	5478	3620	1727
	3,572.00	1.67	238.46	3,505.63	17.15	-564.11	-17.15	2.18	-177	5478	3617	1731
	3,666.00	1.80	244.70	3,599.59	15.80	-566.61	-15.80	0.24	-175	5476	3614	1733
	3,761.00	1.80	237.45	3,694.54	14.36	-569.22	-14.36	0.24	-174	5475	3612	1736
	3,855.00	2.15	248.26	3,788.49	12.92	-572.10	-12.92	0.54	-172	5473	3609	1739
	3,948.00	1.14	313.43	3,881.45	12.90	-574.39	-12.90	2.11	-172	5473	3607	1741
	4,043.00	1.23	306.49	3,976.43	14.16	-575.90	-14.16	0.18	-174	5475	3605	1743
	4,133.00	1.01	305.52	4,066.42	15.20	-577.32	-15.20	0.25	-175	5476	3604	1744
	4,195.00	1.45	188.76	4,128.41	14.74	-577.88	-14.74	3.40	-174	5475	3603	1745
	4,227.00	4.70	173.37	4,160.36	13.04	-577.79	-13.04	10.39	-172	5473	3603	1745
	4,275.00	9.71	182.87	4,207.97	7.04	-577.77	-7.04	10.69	-166	5467	3603	1745
	4,322.00	14.59	180.49	4,253.90	-2.85	-578.02	2.85	10.44	-157	5458	3603	1745
	4,369.00	20.09	180.54	4,298.75	-16.85	-578.15	16.85	11.70	-143	5444	3603	1745
	4,416.00	23.43	182.38	4,342.39	-34.26	-578.61	34.26	7.25	-125	5426	3603	1745

4,463.00	27.87	181.37	4,384.75	-54.59	-579.26	54.59	9.49	-105	5406	3602	1746
4,510.00	31.87	179.92	4,425.50	-77.99	-579.51	77.99	8.65	-81	5382	3602	1746
4,557.00	34.99	177.59	4,464.72	-103.87	-578.92	103.87	7.18	-56	5357	3603	1745
4,604.00	37.98	176.98	4,502.50	-131.78	-577.59	131.78	6.41	-28	5329	3604	1744
4,651.00	41.58	177.20	4,538.62	-161.81	-576.07	161.81	7.67	2	5299	3606	1742
4,699.00	44.53	177.95	4,573.69	-194.55	-574.69	194.55	6.24	35	5266	3608	1741
4,746.00	47.56	176.45	4,606.31	-228.34	-573.02	228.34	6.84	69	5232	3609	1739
4,776.00	50.64	176.71	4,625.95	-250.97	-571.67	250.97	10.29	92	5209	3611	1737
4,793.00	51.65	176.98	4,636.61	-264.19	-570.94	264.19	6.07	105	5196	3612	1736
4,840.00	55.30	177.95	4,664.58	-301.91	-569.28	301.91	7.94	142	5158	3614	1735
4,887.00	61.23	177.64	4,689.29	-341.84	-567.74	341.84	12.63	182	5119	3615	1733
4,934.00	62.77	177.90	4,711.36	-383.30	-566.13	383.30	3.31	224	5077	3617	1731
4,981.00	63.25	177.59	4,732.69	-425.15	-564.48	425.15	1.18	266	5035	3619	1729
5,063.00	65.89	177.68	4,767.89	-499.14	-561.42	499.14	3.22	340	4961	3623	1726
5,074.00	66.77	177.42	4,772.31	-509.20	-560.99	509.20	8.29	350	4951	3623	1725
5,086.00	68.97	176.98	4,776.83	-520.30	-560.45	520.30	18.65	361	4940	3624	1725
5,121.00	74.37	176.80	4,787.83	-553.47	-558.65	553.47	15.44	394	4907	3626	1723
5,133.00	76.18	176.98	4,790.88	-565.06	-558.02	565.06	15.15	406	4895	3627	1722
5,168.00	78.11	176.76	4,798.67	-599.13	-556.15	599.13	5.55	440	4861	3629	1720
5,199.00	80.92	177.42	4,804.31	-629.57	-554.61	629.57	9.30	470	4831	3630	1718
5,214.00	82.07	177.64	4,806.53	-644.39	-553.97	644.39	7.80	485	4816	3631	1718
5,280.00	83.43	178.82	4,814.86	-709.83	-551.95	709.83	2.72	550	4751	3634	1715
5,327.00	83.65	178.69	4,820.15	-756.52	-550.93	756.52	0.54	597	4704	3635	1714
5,373.00	83.91	178.65	4,825.13	-802.23	-549.87	802.23	0.57	643	4658	3636	1713
5,420.00	83.91	178.65	4,830.12	-848.95	-548.77	848.95	0.00	689	4611	3638	1712
5,468.00	84.22	178.87	4,835.08	-896.69	-547.74	896.69	0.79	737	4564	3639	1710
5,515.00	87.47	178.74	4,838.49	-943.55	-546.76	943.55	6.92	784	4517	3640	1709
5,562.00	89.71	178.82	4,839.64	-990.52	-545.76	990.52	4.77	831	4470	3642	1708
5,609.00	89.89	178.74	4,839.81	-1,037.51	-544.76	1,037.51	0.42	878	4423	3643	1707
5,656.00	90.07	178.52	4,839.82	-1,084.49	-543.63	1,084.49	0.60	925	4376	3644	1705
5,751.00	90.24	178.43	4,839.57	-1,179.46	-541.11	1,179.46	0.20	1020	4281	3647	1703
5,844.00	89.93	178.52	4,839.43	-1,272.43	-538.63	1,272.43	0.35	1113	4188	3651	1700
5,935.00	89.23	178.25	4,840.09	-1,363.39	-536.07	1,363.39	0.82	1204	4097	3654	1697
6,025.00	89.01	178.38	4,841.48	-1,453.34	-533.42	1,453.34	0.28	1294	4007	3657	1694
6,114.00	88.79	177.77	4,843.18	-1,542.27	-530.43	1,542.27	0.73	1383	3918	3660	1690
6,202.00	88.70	178.16	4,845.11	-1,630.19	-527.31	1,630.19	0.45	1471	3830	3664	1687
6,292.00	89.01	178.65	4,846.91	-1,720.14	-524.80	1,720.14	0.64	1561	3740	3667	1684
6,382.00	89.76	179.62	4,847.88	-1,810.12	-523.44	1,810.12	1.36	1651	3650	3669	1682
6,472.00	90.59	180.01	4,847.60	-1,900.12	-523.15	1,900.12	1.02	1741	3560	3670	1681
6,560.00	90.73	181.68	4,846.59	-1,988.10	-524.45	1,988.10	1.90	1829	3472	3669	1682
6,650.00	89.98	181.59	4,846.03	-2,078.06	-527.02	2,078.06	0.84	1919	3382	3667	1684
6,739.00	90.64	182.43	4,845.55	-2,167.01	-530.14	2,167.01	1.20	2007	3293	3665	1687
6,794.00	90.64	182.03	4,844.93	-2,221.96	-532.28	2,221.96	0.73	2062	3238	3663	1689
6,829.00	89.14	181.72	4,845.00	-2,256.94	-533.43	2,256.94	4.38	2097	3203	3662	1690
6,873.00	88.84	182.03	4,845.78	-2,300.91	-534.87	2,300.91	0.98	2141	3160	3661	1691
6,920.00	89.10	181.99	4,846.62	-2,347.87	-536.51	2,347.87	0.56	2188	3113	3660	1693
7,009.00	89.76	181.94	4,847.51	-2,436.82	-539.57	2,436.82	0.74	2277	3024	3657	1695
7,099.00	90.24	181.81	4,847.51	-2,526.77	-542.51	2,526.77	0.55	2367	2934	3655	1698
7,190.00	90.64	181.64	4,846.81	-2,617.72	-545.25	2,617.72	0.48	2458	2843	3653	1700
7,284.00	89.32	181.07	4,846.84	-2,711.70	-547.47	2,711.70	1.53	2552	2749	3651	1702
7,379.00	89.71	180.14	4,847.65	-2,806.69	-548.47	2,806.69	1.06	2647	2654	3651	1703
7,472.00	90.29	180.19	4,847.65	-2,899.69	-548.74	2,899.69	0.63	2740	2561	3651	1702
7,566.00	90.86	180.19	4,846.70	-2,993.68	-549.05	2,993.68	0.61	2834	2467	3651	1702
7,661.00	90.68	179.53	4,845.43	-3,088.67	-548.82	3,088.67	0.72	2929	2372	3652	1702
7,756.00	89.58	179.62	4,845.21	-3,183.67	-548.12	3,183.67	1.16	3024	2277	3653	1700
7,850.00	90.24	179.57	4,845.36	-3,277.66	-547.45	3,277.66	0.70	3118	2183	3655	1699
7,943.00	89.71	179.62	4,845.40	-3,370.66	-546.80	3,370.66	0.57	3211	2090	3656	1698
8,037.00	90.07	179.62	4,845.58	-3,464.66	-546.17	3,464.66	0.38	3305	1996	3657	1697
8,133.00	89.32	180.19	4,846.09	-3,560.66	-546.01	3,560.66	0.98	3401	1900	3658	1697
8,227.00	90.51	180.54	4,846.23	-3,654.65	-546.61	3,654.65	1.32	3495	1806	3658	1697
8,322.00	89.85	179.62	4,845.93	-3,749.65	-546.74	3,749.65	1.19	3590	1711	3658	1697
8,416.00	88.40	179.79	4,847.37	-3,843.63	-546.26	3,843.63	1.55	3684	1617	3659	1696
8,510.00	89.14	180.23	4,849.38	-3,937.61	-546.28	3,937.61	0.92	3778	1523	3660	1695
8,605.00	88.35	180.45	4,851.46	-4,032.59	-546.84	4,032.59	0.86	3873	1428	3660	1695
8,701.00	88.40	179.66	4,854.19	-4,128.55	-546.93	4,128.55	0.82	3969	1332	3661	1695
8,796.00	88.00	178.82	4,857.17	-4,223.49	-545.67	4,223.49	0.98	4064	1237	3662	1693
8,890.00	88.70	178.52	4,859.88	-4,317.43	-543.49	4,317.43	0.81	4158	1143	3665	1691
8,985.00	91.12	179.48	4,860.03	-4,412.40	-541.83	4,412.40	2.74	4253	1048	3667	1689
9,080.00	92.40	179.88	4,857.11	-4,507.36	-541.30	4,507.36	1.41	4348	953	3669	1688
9,176.00	90.51	180.41	4,854.67	-4,603.32	-541.55	4,603.32	2.04	4444	857	3669	1687
9,270.00	90.90	180.63	4,853.52	-4,697.31	-542.40	4,697.31	0.48	4538	763	3669	1688
9,365.00	91.43	180.23	4,851.58	-4,792.29	-543.11	4,792.29	0.70	4633	668	3669	1688
9,460.00	91.21	180.41	4,849.40	-4,887.26	-543.64	4,887.26	0.30	4728	573	3669	1688
9,555.00	90.81	180.14	4,847.72	-4,982.24	-544.10	4,982.24	0.51	4823	478	3669	1688
9,638.00	89.45	180.41	4,847.53	-5,065.24	-544.50	5,065.24	1.67	4906	395	3669	1688
9,694.00	89.45	180.41	4,848.07	-5,121.23	-544.90	5,121.23	0.00	4962	339	3669	1688