

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**Form must be Typed**

**Form must be Signed**

**All blanks must be Filled**

**WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD  
 Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

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

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](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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Thornton Air Rotary, LLC

2186 US Highway 166  
Caney, KS 67333

RECEIVED FEB 03 2025

Date	Invoice #
1/29/2025	541

Phone # 620-252-9243 E-Mail  
Fax # 620-252-9243 thomrus@hotmail.com

Bill To
Red Bud Oil & Gas Operating, LLC 3541 CR 5400 Independence, KS 67301

Terms
Due on receipt

Description	Footage/Quantity	Rate	Amount
Twin Valley Enterprises Well # C2-13	1,325	9.00	11,925.00
Cement	4	27.00	108.00
Bit Maintenance Charge		500.00	500.00

  

Location	TWVA 13
AFE #	AFE 2502
Subcontractor	9207
Foreman	
SUP	M. J. P.

We appreciate the opportunity to work for you!

<b>Total</b>	\$12,533.00
<b>Payments/Credits</b>	\$0.00
<b>Balance Due</b>	\$12,533.00

Air Drilling Specialist  
Oil & Gas Wells

THORNTON AIR ROTARY, LLC  
Office Phone: 620-879-2073

2186 US Highway 166  
Caney, KS 67333

Date Started	10/24/2025
Date Completed	10/28/2025

Operator	A.P.I.#	County	State
Red Bud Oil & Gas Operating, LLC	15-125-32568-00-00	Montgomery	Kansas

Well No.	Lease	Section	Township	Range
C2 - 13	Twin Valley Enterprises	13	31	14 E

Type of Well	Driller	Cement	Surface	TD	Size of Hole
Oil	Billy Thornton	4	21' 9" 8 5/8	1325	6 3/4

0-3	DIRT	791-803	SAND	1191-1202	SAND
3-38	LIME	803-900	SHALE	1202-1205	BROWN SAND
38-40	SHALE	900-902	COAL	1205-1213	SAND/ GOOD ODOR &
40-92	LIME	902-903	SANDY LIME/GOOD SHOW & ODOR		
92-202	SHALE	903-931	LIME (PAWNEE)	1213-1214	SANDY SHALE
202-208	LIME	931-934	BLACK SHALE	1214-1325	SHALE
208-302	SHALE	934-940	SANDY SHALE	1325	TD
		940-946	SAND		
302-304	LIME	946-997	SHALE		
304-313	SHALE	997-1021	LIME (OSWEGO)		
313-390	SAND / WET	1021-1032	BLK SHALE (SUMMIT)		
333	WENT TO WATER	1032-1043	LIME		
390-426	SHALE	1043-1053	BLK SHALE (MULKY)		
426-429	LIME	1053-1058	LIME		
429-435	SHALE	1058-1062	SHALE		
435-457	LIME	1062-1064	LIME		
457-461	SHALE	1064-1099	SHALE		
461-543	LIME	1099-1101	LIME		
543-602	SHALE	1101-1103	BLACK SHALE		
602-630	LIME	1103-1104	COAL		
630-651	SHALE	1104-1112	SHALE		
651-677	LIME	1112-1130	SANDY SHALE		
677-684	BLACK SHALE	1130-1147	SHALE		
684-703	SHALE	1147-1148	COAL		
703-723	LIME	1148-1163	SHALE		
723-745	SHALE	1163-1164	COAL		
745-749	LIME	1164-1171	SHALE		
749-752	SHALE	1171-1180	SANDY SHALE		
752-756	LIME	1180-1186	SHALE		
756-760	SHALE	1186-1189	COAL		
760-791	LIME	1189-1191	SHALE		



**HURRICANE SERVICES INC**

RECEIVED FEB 05 2025

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

Customer:  
REDBUD OIL & GAS OPERATING LLC  
3541 CR 5400  
INDEPENDENCE, KS 67301

Invoice Date: 1/29/2025  
Invoice #: 0381874  
Lease Name: Twin Valley Enterprises  
Well #: C2-13 (New)  
County: Montgomery, Ks  
Job Number: EP16367  
District: Eureka

Date/Description	HRS/QTY	Rate	Total
Longstring	0.000	0.000	0.00
Depth Charge 1001'-2000'	1.000	1,500.000	1,500.00
Heavy Equipment Mileage	55.000	4.000	220.00
Light Eq Mileage	55.000	2.000	110.00
Ton Mileage	452.240	1.500	678.36
H842 Thickset	150.000	27.500	4,125.00
Pheno Seal	300.000	1.750	525.00
Bentonite Gel	500.000	0.450	225.00
Hulls	1.600	50.000	80.00
4 1/2" Rubber Plug	1.000	75.000	75.00
Transport 130bbl	4.000	135.000	540.00
Vacuum Truck-90bbl	4.000	100.000	400.00
Fresh Water	7,500.000	0.020	150.00

TWVA13  
AFE 2002  
01308

M. S. S.

**Total** 8,628.36

**TERMS:** Net 30 days. Interest may be charged on past due invoice at rate of 1 1/2% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

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

**WE APPRECIATE YOUR BUSINESS!**

Hurricane Services, Inc.  
 250 N. Water St., Suite #200  
 Wichita, KS 67202



Customer	RedRud Oil & Gas Operating, LLC	Lease & Well #	Twin Valley C #2-13	Date	1/29/2025
Service District	Eureka	County & State	Montgomery, KS	Legal's S/T/R	
Job Type	Longstring	<input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD	Legals S/T/R New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No	Job #
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
1006	David	<input type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
1203	Broker	<input type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
1212	Danny	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input checked="" type="checkbox"/> Specific Job Sequence/Expectations
137-131	Clay (Thayer)	<input type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input checked="" type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations
		<input type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	
<b>Comments</b>					
RTD - 1325', 6 3/4" Well bore. 4 1/2" 11.60# Casing set @ 1316' GL.					

Product/Service Code	Description	Unit of Measure	Quantity	Net Amount
D012	Depth Charge: 1001'-2000'	job	1.00	\$1,500.00
M010	Heavy Equipment Mileage	mi	55.00	\$220.00
M015	Light Equipment Mileage	mi	55.00	\$110.00
M020	Ton Mileage	tm	452.24	\$678.36
CP063	H842 Thickset	sack	150.00	\$4,125.00
CP125	Pheno Seal	lb	300.00	\$525.00
CP095	Benionite Gel	lb	500.00	\$225.00
CP165	Cottonseed Hulls	lb	80.00	\$80.00
FE115	4 1/2" Rubber Plug	ea	1.00	\$75.00
T030	Transport - 130 bbl	hr	4.00	\$540.00
T025	Vacuum Truck - 90 bbl	hr	4.00	\$400.00
AF080	Fresh Water	gal	7,500.00	\$150.00

Customer Section: On the following scale, how would you rate Hurricane Services Inc.?

Based on this job, how likely is it you would recommend HSI to a colleague?

1  2  3  4  5  6  7  8  9  10

1 2 3 4 5 6 7 8 9 10 H(4472)R(211)

Total Taxable	\$ -	Tax Rate:		Net:	\$8,628.36
State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services, material products are tax exempt.				Sale Tax:	\$ -
				Total	\$ 8,628.36

HSI Representative *David Gardner*

**TERMS:** Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.





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

Customer:  
 REDBUD OIL & GAS OPERATING LLC  
 3541 CR 5400  
 INDEPENDENCE, KS 67301

Invoice Date: 3/19/2025  
 Invoice #: 0382820  
 Lease Name: Twin Valley Enterprises  
 Well #: C2-13 (New)  
 County: Montgomery, Ks  
 Job Number: EP16779  
 District: East

Date/Description	HRS/QTY	Rate	Total
Frac	0.000	0.000	0.00
Heavy Eq Mileage	180.000	2.600	468.00
Light Eq Mileage	60.000	1.300	78.00
Ton Mileage	600.000	0.975	585.00
Combo Unit	1.000	1,950.000	1,950.00
Sand Truck	1.000	325.000	325.00
Acid Spot	1.000	390.000	390.00
Transport - 130 bbl	18.000	135.000	2,430.00
20/40 Frac Sand	1,500.000	0.208	312.00
12/20 Frac Sand	18,500.000	0.208	3,848.00
Ball Injector	1.000	65.000	65.00
RCN Balls 1.3 SPG .78IN	15.000	1.300	19.50
15% HCL	150.000	1.300	195.00
Inhibitor	1.000	32.500	32.50
SP 955 Iron control	1.000	19.500	19.50
MicroSurf 1	1.000	26.000	26.00
Clay Stabilizer-CS-702	1.000	26.000	26.00
Biocide	5.000	26.000	130.00
KCL-CS701	17.000	19.500	331.50
Hurrigel 907	102.000	26.000	2,652.00
Liquid Enzyme Breaker	4.000	65.000	260.00

Continued

Location Twva 13  
 AFE# / Project AFE 2502  
 Subcontract / Descriptor 9309  
 Foreman \_\_\_\_\_  
 SUPV M.S.S

**HURRICANE SERVICES INC**



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

Customer:

REBUD OIL & GAS OPERATING LLC  
 3541 CR 5400  
 INDEPENDENCE, KS 67301

Date/Description	HRS/Qty	Rate	Total
Fresh Water	16,232.000	0.013	211.02
<b>Total</b>			<b>211.02</b>

Invoice Date: 3/19/2025  
 Invoice #: 0382820  
 Lease Name: Twin Valley Enterprises  
 Well #: C2-13 (New)  
 County: Montgomery, Ks  
 Job Number: EP16779  
 District: East

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**WE APPRECIATE YOUR BUSINESS!**

**Total** 14,354.02



Customer	Red Bud Operating	Lease & Well #	Twin Valley C2-13	Date	3/19/2025
Service District	Thayer, KS	County & State	MG Co. KS	Legal's S/T/R	
Job Type	Frac	<input checked="" type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	Job #
					Ticket #
					EP16773

Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
948	Jake M.	<input checked="" type="checkbox"/> Hard Hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
816	Ryan H.	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input checked="" type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
821	Landon W.	<input checked="" type="checkbox"/> Safety Footwear	<input checked="" type="checkbox"/> Respiratory Protection	<input type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations
815	Richard M.	<input checked="" type="checkbox"/> PPE/Protective Clothing	<input checked="" type="checkbox"/> Additional Chemical/Acid PPE	<input type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations
524/129	JJ B.	<input checked="" type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	

Comments	
109	Terry
196/127	Nick R.
197/130	Kevin M.
929	Brett S.

Product/Service Code	Description	Unit of Measure	Quantity	Net Amount
m010	Heavy Equipment Mileage	mi	180.00	\$488.00
m015	Light Equipment Mileage	mi	80.00	\$78.00
m020	Ton Mileage	tm	600.00	\$585.00
r010	Combo Unit	ea	1.00	\$1,950.00
r020	Sand Truck	day	1.00	\$325.00
a055	Acid Spot	ea	1.00	\$390.00
r030	Transport - 130 bbl	hr	18.00	\$2,430.00
af010	20/40 Frac Sand	cwt	15.00	\$312.00
af020	12/20 Frac Sand	cwt	185.00	\$3,848.00
af205	Ball Injector	ea	1.00	\$85.00
af215	Rubber Ball Sealer 7/8" - 1.3 Specific Gravity	ea	15.00	\$19.50
af100	15% HCL	gal	150.00	\$195.00
af120	Acid Inhibitor	gal	1.00	\$32.50
af130	Iron Control	gal	1.00	\$19.50
af155	MicroSurf 1	gal	1.00	\$26.00
af145	Permanent Clay Stabilizer	gal	1.00	\$26.00
af060	Bicide	gal	5.00	\$130.00
af055	Liquid KCL Substitute	gal	17.00	\$331.50
af045	Hurrigel 907	gal	102.00	\$2,652.00
af070	Liquid Enzyme Breaker	gal	4.00	\$260.00
af080	Fresh Water	gal	16,232.00	\$211.02

Customer Section: On the following scale how would you rate Hurricane Services, Inc.?		Total Taxable	\$ -	Tax Rate:		Net:	\$14,354.02
Based on this job, how likely is it you would recommend HSI to a colleague?		State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.		Sale Tax:	\$ -	Total	\$ 14,354.02
<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 (Very Likely)		HSI Representative		Jake Mueller			

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**STIMULATION TREATMENT REPORT**

Customer: <b>Red Bud Operating</b>	Well: <b>Twin Valley C2-13</b>	Job No: <b>EP16779</b>
City, State:	County: <b>MG Co. KS</b>	Date: <b>3/19/2025</b>
Field Rep:	S-T-R:	Service: <b>Frac</b>

Downhole Information	
Formation:	<b>Cattlemen</b>
Casing:	<b>4 1/2 in</b>
Tubing:	<b>in</b>
Treatment Via:	
Perforations	
Top Perf:	<b>1200 ft</b>
Bottom Perf:	<b>1212 ft</b>
Perforation Rate:	<b>3 spf</b>
Total Shots:	<b>37 shots</b>

Capacity			
Casing / Tubing:		bbls/ft	
Displacement:		<b>18.5 bbls</b>	
Pressure Test			
Iron Test:		<b>3,000 psi</b>	
Max Pressure:		<b>3,000 psi</b>	
Proppant (lb)			
20/40	<b>1,500</b>	12/20	<b>18,500</b>
16/30	-	8/12	-
Diversions			
Salt	-	Balls	<b>15</b>

Treatment Fluid		
Product	GPT	Gal
Water		
Gel		<b>102.0</b>
Xlink		
KCl		<b>17.0</b>
Biocide		<b>5.0</b>
Surfactant		
Breaker		<b>4.0</b>
Acid		<b>150.0</b>

Time	Rate	PSI	PPG	Stage Pounds	Stage BBLs	Total BBLs	Remarks
					-	3.5	Spot 150 gallons of 15% acid
		1,400			2.0	5.5	Break down well
	5.0	750			2.0	7.5	Stage acid
	20.0	925			40.0	47.5	Start gel pad
		875	0.50	500.0	23.8	71.3	Start 20/40 sand
		850	1.00	1,000.0	23.8	95.1	
		875	1.50	1,500.0	23.8	118.9	Start 12/20 sand
		875	2.00	3,000.0	35.7	154.6	
		875	2.50	4,000.0	38.1	192.7	
		975			-	192.7	Drop 10 balls
		950	2.50	1,000.0	9.5	202.3	
		950	3.00	4,000.0	31.7	234.0	
		1,100			-	234.0	Drop 5 balls
		1,075	3.00	5,000.0	39.7	273.7	
		1,075			28.0	301.7	Flush to perfs + 10 BBL
		725			-	301.7	ISIP
		625			-	301.7	5 Minute shut in
		575			-	301.7	10 Minute shut in
		-			-	301.7	

	CREW	UNIT	SUMMARY		
Treater / Foreman:	Jake M.	948	Average Rate (bpm)	Max Rate (bpm)	Total Proppant (#)
Pump Operator:	Ryan H.	816	12.5	20.0	20000
Sand:	Landon W.	821	Average PSI	Max Pressure (psi)	Total Load (bbls)
Water:	Richard M.	815	860	1400	302
Acid:	JJ B.	524/129			

# Data Collection Report

## Gauge Information

Model	Additel680
SN	21822030030
Range	(0-10000)psi
Unit	psi
Custom	Additel680

## Record Information

Start Time	03/19/2025 12:26:17
End Time	03/19/2025 12:59:20
Interval	3.0
Number	662
MaxValue	1033
MinValue	4
AvgValue	657
RecordName	RED BUD OIL & GAS TWIN VALLEY C2-13 FRAC
RecordNumber	127

## Pressure Chart

