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 # 32705
Name: Raney Oil Company, LLC
Address 1: 4665 BAUER BROOK CT.
Address 2:
City: LAWRENCE State: KS Zip: 66049 + 9013
Contact Person: Tom Raney
Phone: (785) 749-0672
CONTRACTOR: License # 35589
Name: Lighthouse Drilling, LLC
Wellsite Geologist: Roger Martin
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 #:

12/01/2022	12/15/2022	5/12/2023
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-035-24761-00-01
Spot Description:
NW - NE - SW - NW Sec. 23 Twp. 34 S. R. 5 ☑ East ☐ West
1470 Feet from ☑ North / ☐ South Line of Section
930 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☑ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)*, Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Cowley
Lease Name: BLACK Well #: 1
Field Name:
Producing Formation: Arbuckle
Elevation: Ground: 1147 Kelly Bushing: 1156
Total Vertical Depth: 4002 Plug Back Total Depth: 4002
Amount of Surface Pipe Set and Cemented at: 225 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: 1000 ppm Fluid volume: 800 bbls
Dewatering method used: Evaporated
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: 05/16/2023
☐ **Confidential Release Date:**
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☑ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** David Befort **Date:** 05/18/2023

Page Two

Operator Name: Raney Oil Company, LLC Lease Name: BLACK Well #: 1

Sec. 23 Twp. 34 S. R. 5 ☑ East ☐ West County: Cowley

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

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☑ Yes ☐ No

Electric Log Run ☑ Yes ☐ No

Geologist Report / Mud Logs ☑ Yes ☐ No

List All E. Logs Run:

Dual Receiver Bond Log

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Arbuckle	3483	
Mississippi	3055	
Kansas City	2451	

CASING RECORD ☑ New ☐ 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
Surface	8.625	8.625	24	225	Thickset	150	1.85
Production	7.875	5.5	17	3589	Thickset	200	1.85

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
____ Perforate ____ Protect Casing ____ Plug Back TD ____ 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: 05/12/2023

Producing Method: ☑ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☑ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*

PRODUCTION INTERVAL:

Top	Bottom
3589	4002

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: 2.875 Set At: 3579 Packer At: 3579

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Raney Oil Company, LLC
Well Name	BLACK 1
Doc ID	1713799

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	8.625	8.625	24	225	Thickset	150	1.85
Production	7.875	5.5	17	3589	Thickset	200	1.85

810 E 7TH
PO Box 92
EUREKA, KS 67045
(620) 583-5561

API # 15-035-24761

ELITE CEMENTING & ACID SERVICE, LLC

C & G Drlg Rig #2

Cement or Acid Field Report
Ticket No. 6901
Foreman Kevin McCoy
Camp Eureka

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
12-3-22	1375	Black #1	23	34S	SE	Cowley	Ks

Customer: R.A. Energy, LLC
Mailing Address: 11615 Rosewood St., Suite 100
City: Leawood | State: KS | Zip Code: 66211

Safety Meeting: KM AM DK

Unit #	Driver	Unit #	Driver
104	Alan M.		
113	Dan K.		

Job Type: Surface
Casing Depth: 210' G.L.
Casing Size & Wt.: 8 5/8" 23#
Displacement: 12.7 Bbl
Hole Depth: 224' K.B.
Hole Size: 12 1/4"
Cement Left in Casing: 20' ±
Displacement PSI:
Slurry Vol.: 30 Bbl
Slurry Wt.: 15#
Water Gal/SK:
Bump Plug to:
Tubing:
Drill Pipe:
Other:
BPM:

Remarks: Safety Meeting: Rig up to 8 5/8" Casing. Break Circulation w/ 10 Bbl fresh water. Mixed 125 sks Class "A" Cement w/ 3% CaCl2, 2% Gel, 1/4# flo seal/sk @ 15#/gal, yield 1.35 = 30 Bbl Slurry. Displace w/ 12.7 Bbl fresh water. Shut Casing in. Good Cement Returns to Surface = 10 Bbl Slurry to Pit. Job Complete. Rig down.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 101W	1	Pump Charge	1265.00	1265.00
C 107	60	Mileage	5.00	300.00
C 200	125 sks	Class "A" Cement	18.55	2318.75
C 205	355#	CaCl2 3%	.75#	266.25
C 206	235#	Gel 2%	.30#	70.50
C 209	30#	Floseal 1/4#/sk	2.80#	84.00
C 108B	5.88 Tons	Ton Mileage 60 miles	1.50	529.20
		Paid by R.A. Energy on 1-3-23		
			Sub Total	4,833.70
		THANK YOU	Less 5%	250.59
		6.5%	Sales Tax	178.07
			Total	4,761.18

Authorization: Witnessed By Will
Title: C & G Drlg Toolpusher

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

Insurance well, no charge

ELITE CEMENTING & ACID SERVICE, LLC

C & G DRLG Rig 2

Cement or Acid Field Report
Ticket No. **6905**
Foreman David Gardner
Camp Eureka

API # 15-035-24761

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
12-15-22	1375	Black #1	23	34S	5E	Cowley	Ks

Customer: RA Energy, LLC
Mailing Address: 11615 Rosewood St. Ste 100
City: Leawood | State: Ks | Zip Code: 66211

Safety Meeting: DG AM SM DK

Unit #	Driver	Unit #	Driver
104	Alan M.		
112	Dan K.		
113	Steve M.		

Job Type: Longstring
Casing Depth: 3588.66' K.B.
Casing Size & Wt.: 5½" 17#
Displacement: 7¼ Bbl
Hole Depth: 4002' K.B.
Hole Size: 7⅞"
Cement Left in Casing: 48.64' S.J.
Displacement PSI: 50
Slurry Vol.: 14 Bbl Lead, 50 Bbl Tail
Slurry Wt.: 13.3# - 13.8#
Water Gal/SK:
Bump Plug to: 1000 PSI
Tubing:
Drill Pipe:
Other:
BPM:

Remarks: Safety Meeting: 5½" 17# casing set @ 3588.66' K.B. Circulate w/ Mud pump for 1 Hour. Rig up to 5½ casing. Set Basketshoe @ 1000 PSI. Break circulation w/ 10 Bbl fresh water. Mixed 50 sks 60/40 Pozmix Cement w/ 6% Gel, 2# Phenoseal/sk @ 13.3#/gal, yield 1.57 = 14 Bbl slurry, Tail in w/ 150 sks Thick Set Cement w/ 5# Kolseal/sk, 1# Phenoseal/sk, 1/3% CFL-115 @ 13.8#/gal, yield 1.85 = 50 Bbl slurry. Wash out pump & lines. Shut down. Went to Release Latch Down plug & noticed plug stop pin had unscrewed & already released plug. Consulted w/ Roger Martin & decided to Displace as much as possible. Start Displacement & plug landed @ 7¼ Bbl w/ fresh water = 312' of water above cement. Job done. Rig down.
Final Displacement pressure of 50 PSI. Bump plug to 1000 PSI.
Plug R.H. w/ 20 sks + M.H. w/ 15 sks
Centralizers on #2, 4, 6, 8, 10, 13, 21, 28 Baskets on #3, 12

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 102	1	Pump Charge	1180.00	1180.00
C 107	60	Mileage	5.00	300.00
C 203	85 sks	60/40 Pozmix Cement	15.75	1338.75
C 206	440 #	Gel 4%	.30 #	132.00
C 208	170 #	Pheno Seal 2#/sk	1.55 #	263.50
C 201	150 sks	Thick Set Cement	24.25	3637.50
C 207	750 #	Kol-Seal 5#/sk	.56 #	420.00
C 208	300 #	Phenoseal 2#/sk	1.55 #	465.00
C 211	50 #	CFL-115 1/3%	12.95 #	647.50
C 108 B	11.91 Tons	Ton Mileage 60 miles	1.50	1071.90
C 421	1	5½ Latch down Plug	285.00	285.00
C 761	1	5½ Type B Basket Shoe	1596.00	1596.00
C 681	1	5½ Float Collar Body w/ inverted Latch down	254.00	254.00
C 604	2	5½ Cement Baskets	278.00	556.00
C 504	8	5½ x 7⅞ Centralizers	59.00	472.00
			Sub Total	12,619.15
		THANK You	Less 5%	663.68
		6.5%	Sales Tax	654.37
			Total	12,609.84

Authorization: Roger Martin Title: CEO

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

810 E 7TH
PO Box 92
EUREKA, KS 67045
(620) 583-5561

ELITE CEMENTING & ACID SERVICE, LLC

SAM'S WELL SERVICE

Cement or Acid Field Report
Ticket No. 7012
Foreman Kevin McCoy
Camp EUREKA

API # 15-035-24761

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
1-23-23	1375	BLACK #1	23	34S	5E	Cowley	Ks

Customer: RA Energy, LLC
Mailing Address: 11615 Rosewood St. Ste 100
City: Leawood | State: Ks | Zip Code: 66211

Safety Meeting: KM AM SM

Unit #	Driver	Unit #	Driver
104	Alan M.		
110	Steve M.		

Job Type: Squeeze
Casing Depth: 3588.66' KB
Casing Size & Wt.: 5½ 17#
Displacement: 21.5 BbL
Hole Depth: 4002' KB
Hole Size: 7⅞"
Cement Left in Casing: 25'
Displacement PSI: 1000
Slurry Vol.: 12.5 BbL
Slurry Wt.: 14.8#
Water Gal/SK
Bump Plug to
Tubing
Drill Pipe
Other
BPM

Remarks: Safety Meeting: After Drilling out Cement from 290' to 3055' on ID of 5½, Drilled out Latch down Plug & Baffle Plate @ 3535'. Tag Float in Basket Shoe @ 3580'. Circulate ID of 5½ Clean. 1-23-23 ELI wireline Ran Cement Bond Log from 3580' to 2986' Free Pipe over this interval. Mid-Con Tools Ran 5½ Packer & 2⅞ Tubing to 3509'. Set Packer, Pressure Annulus to 300 psi. Shut Annulus in. Rig up to 2⅞ Tubing. Establish injection Rate w/ water into Ports on Basket Shoe @ 3 BPM @ 600 psi w/ No fluid Returns to Surface on Annulus of 5½. Mixed 50 sks Class 'A' Cement w/ 2% CaCl2, 2% Gel, 1# Phenoseal/sk @ 14.8#/gal, yield 1.35 = 12 BbL Slurry. (Mixing Pressure 600 psi – 50 psi @ 3 BPM) Shut down, wash out Pump & Lines. Start Displacement @ 2 BPM @ 0 psi, 10 BbL in @ 0 psi (Cement going out Ports in Basket Shoe), 13 BbL in @ 150 psi, 15 BbL in @ 325 psi, 17 BbL in @ 500 psi, 19 BbL in @ 750 psi, 21.5 BbL in @ 1000 psi, ISIP 400 psi, Holding @ 400 psi. Release Pressure, No Flow Back, Float in Basket Shoe Closed. Back wash w/ 40 BbL water. Tooh w/ Packer. Job Complete.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 104	1	Pump Charge	1180.00	1180.00
C 107	60	Mileage	5.00	300.00
C 200	50 sks	Class "A" Cement	18.55	927.50
C 205	94#	CaCl2 2%	.75#	70.50
C 206	94#	Gel 2%	.30#	28.20
C 208	50#	Phenoseal 1#/sk	1.55#	77.50
C 108	2.35 Tons	Ton Mileage	M/C	390.00
	1-25-23	ELI wireline Ran Cement Bond Log Found Top of Cement @ 3310'		
		THANK You	Sub Total	2,973.70
			Sales Tax	
			Total	0

Authorization: By Kevin McCoy
Title: Elite Cementing – Partner

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

810 E 7TH
PO Box 92
EUREKA, KS 67045
(620) 583-5561

API # 15-035-24761

ELITE CEMENTING & ACID SERVICE, LLC

SAM'S WELL SERVICE

Cement or Acid Field Report
Ticket No. **7019**
Foreman Kevin McCoy
Camp Eureka

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
1-25-23	1375	Black # 1	23	34S	SE	Cowley	Ks

Customer: RA Energy, LLC
Mailing Address: 11615 Rosewood St. Ste 100
City: Leawood | State: Ks | Zip Code: 66211

Safety Meeting: KM AM SM

Unit #	Driver	Unit #	Driver
104	Alan M.		
113	Steve M		

Job Type: Squeeze
Casing Depth: 3588.66'
Casing Size & Wt.: 5½" 17#
Displacement: 21.5 BBL
Hole Depth: 4002'
Hole Size: 7⅞
Cement Left in Casing: 50' ±
Displacement PSI: 1100
Slurry Vol.: 38 BBL
Slurry Wt.: 15#
Water Gal/SK:
Bump Plug to:
Tubing: 2⅞" EUE
Drill Pipe:
Other:
BPM:

Remarks: Safety Meeting: 5½" 17# Casing was originally set @ 3588.66' KB (3579.66' G.L.) w/ Basket Shoe Centralizers on #2,4,6,8,10,13,21,28. Baskets on top of #3, #12. After Drilling out Cement on ID of 5½ was complete we squeezed 50 sks Cement thru Basket Shoe on 1-23-23. ELI Ran CBL found TOC @ 3310' Perforate Squeeze Holes from 3290-3292 (6 Holes) ← on 1-25-23. 1-25-23 Mid-Con Ran Packer & 2⅞ Tubing. Set Packer @ 3097'. Establish Injection Rate w/ water @ 3.5 BPM @ 400 PSI w/ no Returns to Surface, Start mixing Cement Had 23 BBL Slurry Pumped (Got good Returns to Surface) Total Cement Pumped = 160 sks Class "A" Cement w/ 2% CaCl2, 2% Gel, 1# Phenoseal/sk @ 15#/gal, yield 1.33 = 38 BBL Slurry. Wash out Pump & Lines. Displace w/ 21.5 BBL Fresh water. Final Pumping Pressure 1100 PSI. Shut in @ 400 PSI. After Drilling out This Squeeze Cement, ELI wire Line Ran CBL on 1-31-23 found TOC @ 1940' on Annulus of 5½. Recementing Procedures Complete. Release Workover Rig.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 104	1	Pump Charge	1180.00	1180.00
C 107	60	Mileage	5.00	300.00
C 200	160 sks	Class "A" Cement	18.55	2968.00
C 205	300 #	CaCl2 2%	.75 #	225.00
C 206	300 #	Gel 2%	.30 #	90.00
C 208	160 #	Phenoseal 1#/sk	1.55 #	248.00
C 108	7.52 Ton	Ton Mileage 60 miles	1.50	676.80
C 761	1	5½ Type B Basket Shoe	1596.00	1596.00
C 604	2	5½ Cement Baskets	278.00	556.00
C 504	8	5½ x 7⅞ Centralizers	59.00	472.00
			Sub Total	8,311.80
		Thank You	Less 5%	435.59
		6.5%	Sales Tax	400.08
			Total	8,276.29

Authorization: Witnessed By Arron Title: RA Energy Co. Rep.

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

810 E 7TH
PO Box 92
EUREKA, KS 67045
(620) 583-5561

API # 15-035-24761

ELITE CEMENTING & ACID SERVICE, LLC

C & G Drlg Rig #2

Cement or Acid Field Report
Ticket No. 6901
Foreman Kevin McCoy
Camp Eureka

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
12-3-22	1375	Black #1	23	34S	SE	Cowley	Ks

Customer: R.A. Energy, LLC
Mailing Address: 11615 Rosewood St., Suite 100
City: Leawood | State: KS | Zip Code: 66211

Safety Meeting: KM AM DK

Unit #	Driver	Unit #	Driver
104	Alan M.		
113	Dan K.		

Job Type: Surface
Casing Depth: 210' G.L.
Casing Size & Wt.: 8 5/8" 23#
Displacement: 12.7 Bbl
Hole Depth: 224' K.B.
Hole Size: 12 1/4"
Cement Left in Casing: 20' ±
Displacement PSI:
Slurry Vol.: 30 Bbl
Slurry Wt.: 15#
Water Gal/SK:
Bump Plug to:
Tubing:
Drill Pipe:
Other:
BPM:

Remarks: Safety Meeting: Rig up to 8 5/8" Casing. Break Circulation w/ 10 Bbl fresh water. Mixed 125 sks Class "A" Cement w/ 3% CaCl2, 2% Gel, 1/4# flo seal/sk @ 15#/gal, yield 1.35 = 30 Bbl Slurry. Displace w/ 12.7 Bbl fresh water. Shut Casing in. Good Cement Returns to Surface = 10 Bbl Slurry to Pit. Job Complete. Rig down.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 101W	1	Pump Charge	1265.00	1265.00
C 107	60	Mileage	5.00	300.00
C 200	125 sks	Class "A" Cement	18.55	2318.75
C 205	355#	CaCl2 3%	.75#	266.25
C 206	235#	Gel 2%	.30#	70.50
C 209	30#	Floseal 1/4#/sk	2.80#	84.00
C 108B	5.88 Tons	Ton Mileage 60 miles	1.50	529.20
		Paid by R.A. Energy on 1-3-23		
			Sub Total	4,833.70
		THANK YOU	Less 5%	250.59
		6.5%	Sales Tax	178.07
			Total	4,761.18

Authorization: Witnessed By Will
Title: C & G Drlg Toolpusher

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

Insurance well, no charge

ELITE CEMENTING & ACID SERVICE, LLC

C & G DRLG Rig 2

Cement or Acid Field Report
Ticket No. **6905**
Foreman David Gardner
Camp Eureka

API # 15-035-24761

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
12-15-22	1375	Black #1	23	34S	5E	Cowley	Ks

Customer: RA Energy, LLC
Mailing Address: 11615 Rosewood St. Ste 100
City: Leawood | State: Ks | Zip Code: 66211

Safety Meeting: DG AM SM DK

Unit #	Driver	Unit #	Driver
104	Alan M.		
112	Dan K.		
113	Steve M.		

Job Type: Longstring
Casing Depth: 3588.66' K.B.
Casing Size & Wt.: 5½" 17#
Displacement: 7¼ Bbl
Hole Depth: 4002' K.B.
Hole Size: 7⅞"
Cement Left in Casing: 48.64' S.J.
Displacement PSI: 50
Slurry Vol.: 14 Bbl Lead, 50 Bbl Tail
Slurry Wt.: 13.3# - 13.8#
Water Gal/SK:
Bump Plug to: 1000 PSI
Tubing:
Drill Pipe:
Other:
BPM:

Remarks: Safety Meeting: 5½" 17# casing set @ 3588.66' K.B. Circulate w/ Mud pump for 1 Hour. Rig up to 5½ casing. Set Basketshoe @ 1000 PSI. Break circulation w/ 10 Bbl fresh water. Mixed 50 sks 60/40 Pozmix Cement w/ 6% Gel, 2# Phenoseal/sk @ 13.3#/gal, yield 1.57 = 14 Bbl slurry, Tail in w/ 150 sks Thick Set Cement w/ 5# Kolseal/sk, 1# Phenoseal/sk, 1/3% CFL-115 @ 13.8#/gal, yield 1.85 = 50 Bbl slurry. Wash out pump & lines. Shut down. Went to Release Latch Down plug & noticed plug stop pin had unscrewed & already released plug. Consulted w/ Roger Martin & decided to Displace as much as possible. Start Displacement & plug landed @ 7¼ Bbl w/ fresh water = 312' of water above cement. Job done. Rig down.
Final Displacement pressure of 50 PSI. Bump plug to 1000 PSI.
Plug R.H. w/ 20 sks + M.H. w/ 15 sks
Centralizers on #2, 4, 6, 8, 10, 13, 21, 28 Baskets on #3, 12

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 102	1	Pump Charge	1180.00	1180.00
C 107	60	Mileage	5.00	300.00
C 203	85 sks	60/40 Pozmix Cement	15.75	1338.75
C 206	440 #	Gel 4%	.30 #	132.00
C 208	170 #	Pheno Seal 2#/sk	1.55 #	263.50
C 201	150 sks	Thick Set Cement	24.25	3637.50
C 207	750 #	Kol-Seal 5#/sk	.56 #	420.00
C 208	300 #	Phenoseal 2#/sk	1.55 #	465.00
C 211	50 #	CFL-115 1/3%	12.95 #	647.50
C 108 B	11.91 Tons	Ton Mileage 60 miles	1.50	1071.90
C 421	1	5½ Latch down Plug	285.00	285.00
C 761	1	5½ Type B Basket Shoe	1596.00	1596.00
C 681	1	5½ Float Collar Body w/ inverted Latch down	254.00	254.00
C 604	2	5½ Cement Baskets	278.00	556.00
C 504	8	5½ x 7⅞ Centralizers	59.00	472.00
			Sub Total	12,619.15
		THANK You	Less 5%	663.68
		6.5%	Sales Tax	654.37
			Total	12,609.84

Authorization: Roger Martin Title: CEO

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

810 E 7TH
PO Box 92
EUREKA, KS 67045
(620) 583-5561

ELITE CEMENTING & ACID SERVICE, LLC

SAM'S WELL SERVICE

Cement or Acid Field Report
Ticket No. 7012
Foreman Kevin McCoy
Camp EUREKA

API # 15-035-24761

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
1-23-23	1375	BLACK #1	23	34S	5E	Cowley	Ks

Customer: RA Energy, LLC
Mailing Address: 11615 Rosewood St. Ste 100
City: Leawood | State: Ks | Zip Code: 66211

Safety Meeting: KM AM SM

Unit #	Driver	Unit #	Driver
104	Alan M.		
110	Steve M.		

Job Type: Squeeze
Casing Depth: 3588.66' KB
Casing Size & Wt.: 5½ 17#
Displacement: 21.5 BbL
Hole Depth: 4002' KB
Hole Size: 7⅞"
Cement Left in Casing: 25'
Displacement PSI: 1000
Slurry Vol.: 12.5 BbL
Slurry Wt.: 14.8#
Water Gal/SK
Bump Plug to
Tubing
Drill Pipe
Other
BPM

Remarks: Safety Meeting: After Drilling out Cement from 290' to 3055' on ID of 5½, Drilled out Latch down Plug & Baffle Plate @ 3535'. Tag Float in Basket Shoe @ 3580'. Circulate ID of 5½ Clean. 1-23-23 ELI wireline Ran Cement Bond Log from 3580' to 2986' Free Pipe over this interval. Mid-Con Tools Ran 5½ Packer & 2⅞ Tubing to 3509'. Set Packer, Pressure Annulus to 300 psi. Shut Annulus in. Rig up to 2⅞ Tubing. Establish injection Rate w/ water into Ports on Basket Shoe @ 3 BPM @ 600 psi w/ No fluid Returns to Surface on Annulus of 5½. Mixed 50 sks Class 'A' Cement w/ 2% CaCl2, 2% Gel, 1# Phenoseal/sk @ 14.8#/gal, yield 1.35 = 12 BbL Slurry. (Mixing Pressure 600 psi – 50 psi @ 3 BPM) Shut down, wash out Pump & Lines. Start Displacement @ 2 BPM @ 0 psi, 10 BbL in @ 0 psi (Cement going out Ports in Basket Shoe), 13 BbL in @ 150 psi, 15 BbL in @ 325 psi, 17 BbL in @ 500 psi, 19 BbL in @ 750 psi, 21.5 BbL in @ 1000 psi, ISIP 400 psi, Holding @ 400 psi. Release Pressure, No Flow Back, Float in Basket Shoe Closed. Back wash w/ 40 BbL water. Tooh w/ Packer. Job Complete.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 104	1	Pump Charge	1180.00	1180.00
C 107	60	Mileage	5.00	300.00
C 200	50 sks	Class "A" Cement	18.55	927.50
C 205	94#	CaCl2 2%	.75#	70.50
C 206	94#	Gel 2%	.30#	28.20
C 208	50#	Phenoseal 1#/sk	1.55#	77.50
C 108	2.35 Tons	Ton Mileage	M/C	390.00
	1-25-23	ELI wireline Ran Cement Bond Log Found Top of Cement @ 3310'		
		THANK You	Sub Total	2,973.70
			Sales Tax	
			Total	0

Authorization: By Kevin McCoy
Title: Elite Cementing – Partner

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

810 E 7TH
PO Box 92
EUREKA, KS 67045
(620) 583-5561

API # 15-035-24761

ELITE CEMENTING & ACID SERVICE, LLC

SAM'S WELL SERVICE

Cement or Acid Field Report
Ticket No. **7019**
Foreman Kevin McCoy
Camp Eureka

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
1-25-23	1375	Black # 1	23	34S	SE	Cowley	Ks

Customer: RA Energy, LLC
Mailing Address: 11615 Rosewood St. Ste 100
City: Leawood | State: Ks | Zip Code: 66211

Safety Meeting: KM AM SM

Unit #	Driver	Unit #	Driver
104	Alan M.		
113	Steve M		

Job Type: Squeeze
Casing Depth: 3588.66'
Casing Size & Wt.: 5½" 17#
Displacement: 21.5 BBL
Hole Depth: 4002'
Hole Size: 7⅞
Cement Left in Casing: 50' ±
Displacement PSI: 1100
Slurry Vol.: 38 BBL
Slurry Wt.: 15#
Water Gal/SK:
Bump Plug to:
Tubing: 2⅞" EUE
Drill Pipe:
Other:
BPM:

Remarks: Safety Meeting: 5½" 17# Casing was originally set @ 3588.66' KB (3579.66' G.L.) w/ Basket Shoe Centralizers on #2,4,6,8,10,13,21,28. Baskets on top of #3, #12. After Drilling out Cement on ID of 5½ was complete we squeezed 50 sks Cement thru Basket Shoe on 1-23-23. ELI Ran CBL found TOC @ 3310' Perforate Squeeze Holes from 3290-3292 (6 Holes) ← on 1-25-23. 1-25-23 Mid-Con Ran Packer & 2⅞ Tubing. Set Packer @ 3097'. Establish Injection Rate w/ water @ 3.5 BPM @ 400 PSI w/ no Returns to Surface, Start mixing Cement Had 23 BBL Slurry Pumped (Got good Returns to Surface) Total Cement Pumped = 160 sks Class "A" Cement w/ 2% CaCl2, 2% Gel, 1# Phenoseal/sk @ 15#/gal, yield 1.33 = 38 BBL Slurry. Wash out Pump & Lines. Displace w/ 21.5 BBL Fresh water. Final Pumping Pressure 1100 PSI. Shut in @ 400 PSI. After Drilling out This Squeeze Cement, ELI wire Line Ran CBL on 1-31-23 found TOC @ 1940' on Annulus of 5½. Recementing Procedures Complete. Release Workover Rig.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 104	1	Pump Charge	1180.00	1180.00
C 107	60	Mileage	5.00	300.00
C 200	160 sks	Class "A" Cement	18.55	2968.00
C 205	300 #	CaCl2 2%	.75 #	225.00
C 206	300 #	Gel 2%	.30 #	90.00
C 208	160 #	Phenoseal 1#/sk	1.55 #	248.00
C 108	7.52 Ton	Ton Mileage 60 miles	1.50	676.80
C 761	1	5½ Type B Basket Shoe	1596.00	1596.00
C 604	2	5½ Cement Baskets	278.00	556.00
C 504	8	5½ x 7⅞ Centralizers	59.00	472.00
			Sub Total	8,311.80
		Thank You	Less 5%	435.59
		6.5%	Sales Tax	400.08
			Total	8,276.29

Authorization: Witnessed By Arron Title: RA Energy Co. Rep.

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

ROGER L. MARTIN

PROPRIETARY OR PROTECTED BY COPYRIGHT - 2014 - DEMARTIN

GEOLOGIST'S REPORT

WELL LOG ANALYSIS

COMPANY	WATERMAN, GAST MINERAL OIL COMPANY, LLC
WELL	#1 SCK 1
FIELD	FORMOSA
LOCATION	1320' FSL & 330' FWL
SECTION 17	TOWNSHIP 15N RANGE 09E
STATE	VERMILLION COUNTY, KANSAS
CONTRACTOR	CMC DRILLING, INC.
SPUD	07/07/2002 COMPLETED
ELV	1002' GL 1006' KB
TD	2,500'
PBTD	
CASING	8 5/8" @ 20' W/ 10 SACKS CEMENT
STATUS	OIL WELL

FORMATION TOPS	TOPS	SAMPLES
DOCK	1,054 (-48)	1,054 (-48)
STARK SHALE	1,416 (-410)	1,416 (-410)
SWOPE	1,434 (-428)	1,434 (-428)
HUSHPUCKNEY SHALE	1,472 (-466)	1,472 (-466)
BROWN LIME	1,484 (-478)	1,484 (-478)
LANSING	1,494 (-488)	1,494 (-488)
KANSAS CITY	1,690 (-684)	1,690 (-684)
MARMATON	1,812 (-806)	1,812 (-806)
PAWNEE	2,000 (-994)	2,000 (-994)
FORT SCOTT	2,064 (-1058)	2,064 (-1058)
CHEROKEE SHALE	2,092 (-1086)	2,092 (-1086)
MISSISSIPPIAN	2,184 (-1178)	2,184 (-1178)
CHESTER SANDSTONE	2,190 (-1184)	2,190 (-1184)
CHESTER LIMESTONE	2,200 (-1194)	2,200 (-1194)
CHESTER SHALE	2,214 (-1208)	2,214 (-1208)
CHESTER SANDSTONE	2,224 (-1218)	2,224 (-1218)
CHESTER LIMESTONE	2,232 (-1226)	2,232 (-1226)
CHESTER SHALE	2,242 (-1236)	2,242 (-1236)
CHESTER SANDSTONE	2,252 (-1246)	2,252 (-1246)
CHESTER LIMESTONE	2,262 (-1256)	2,262 (-1256)
CHESTER SHALE	2,272 (-1266)	2,272 (-1266)
TD	2,500 (-1494)	2,500 (-1494)
LTD		

CHRONOLOGY
07/07/02 - MIRU CMC DRILLING RIG #2
07/08/02 - SPUD WELL @ 1:00 PM
07/09/02 - TIH @ 20'
07/10/02 - DRILLED TO 1,500'
07/11/02 - DRILLED TO 2,500'
07/12/02 - DRILL STEM TEST
07/13/02 - DRILL STEM TEST
07/14/02 - DRILL STEM TEST
07/15/02 - DRILL STEM TEST
07/16/02 - DRILL STEM TEST
07/17/02 - DRILL STEM TEST
07/18/02 - DRILL STEM TEST
07/19/02 - DRILL STEM TEST - TERMINATED
07/20/02 - PLUGGED

REMARKS

DRILL STEM TEST #1 (1,500' - 1,530') - 30 MINUTES - WEAK BLOW - RECOVERED 5' OF MUD - NO SHOW OF OIL OR GAS - SHUT IN 30 MINUTES - IFP 0 - FFP 0 - ISIP 0 - FSIP 0 - HYDROSTATIC PRESSURE 1,000 PSI

DRILL STEM TEST #2 (1,530' - 1,560') - 30 MINUTES - WEAK BLOW - RECOVERED 5' OF MUD - NO SHOW OF OIL OR GAS - SHUT IN 30 MINUTES - IFP 0 - FFP 0 - ISIP 0 - FSIP 0 - HYDROSTATIC PRESSURE 1,000 PSI

DRILL STEM TEST #3 (2,000' - 2,030') - 30 MINUTES - WEAK BLOW - RECOVERED 5' OF MUD - NO SHOW OF OIL OR GAS - SHUT IN 30 MINUTES - IFP 0 - FFP 0 - ISIP 0 - FSIP 0 - HYDROSTATIC PRESSURE 1,000 PSI

DRILL STEM TEST #4 (2,064' - 2,094') - 30 MINUTES - WEAK BLOW - RECOVERED 5' OF MUD - NO SHOW OF OIL OR GAS - SHUT IN 30 MINUTES - IFP 0 - FFP 0 - ISIP 0 - FSIP 0 - HYDROSTATIC PRESSURE 1,000 PSI

DRILL STEM TEST #5 (2,092' - 2,122') - 30 MINUTES - WEAK BLOW - RECOVERED 5' OF MUD - NO SHOW OF OIL OR GAS - SHUT IN 30 MINUTES - IFP 0 - FFP 0 - ISIP 0 - FSIP 0 - HYDROSTATIC PRESSURE 1,000 PSI

DRILL STEM TEST #6 (2,184' - 2,214') - 30 MINUTES - WEAK BLOW - RECOVERED 5' OF MUD - NO SHOW OF OIL OR GAS - SHUT IN 30 MINUTES - IFP 0 - FFP 0 - ISIP 0 - FSIP 0 - HYDROSTATIC PRESSURE 1,000 PSI

DRILL STEM TEST #7 (2,190' - 2,224') - 30 MINUTES - WEAK BLOW - RECOVERED 5' OF MUD - NO SHOW OF OIL OR GAS - SHUT IN 30 MINUTES - IFP 0 - FFP 0 - ISIP 0 - FSIP 0 - HYDROSTATIC PRESSURE 1,000 PSI

DRILL STEM TEST #8 (2,200' - 2,232') - 30 MINUTES - WEAK BLOW - RECOVERED 5' OF MUD - NO SHOW OF OIL OR GAS - SHUT IN 30 MINUTES - IFP 0 - FFP 0 - ISIP 0 - FSIP 0 - HYDROSTATIC PRESSURE 1,000 PSI

DRILL STEM TEST #9 (2,214' - 2,242') - 30 MINUTES - WEAK BLOW - RECOVERED 5' OF MUD - NO SHOW OF OIL OR GAS - SHUT IN 30 MINUTES - IFP 0 - FFP 0 - ISIP 0 - FSIP 0 - HYDROSTATIC PRESSURE 1,000 PSI

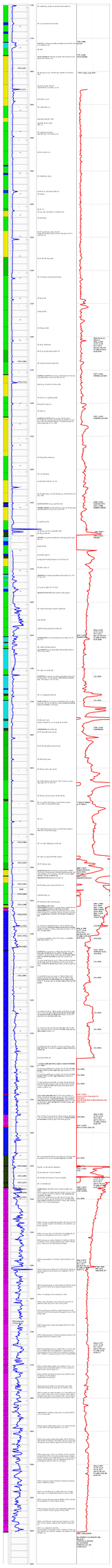
DRILL STEM TEST #10 (2,224' - 2,252') - 30 MINUTES - WEAK BLOW - RECOVERED 5' OF MUD - NO SHOW OF OIL OR GAS - SHUT IN 30 MINUTES - IFP 0 - FFP 0 - ISIP 0 - FSIP 0 - HYDROSTATIC PRESSURE 1,000 PSI

DRILL STEM TEST #11 (2,232' - 2,262') - 30 MINUTES - WEAK BLOW - RECOVERED 5' OF MUD - NO SHOW OF OIL OR GAS - SHUT IN 30 MINUTES - IFP 0 - FFP 0 - ISIP 0 - FSIP 0 - HYDROSTATIC PRESSURE 1,000 PSI

DRILL STEM TEST #12 (2,242' - 2,272') - 30 MINUTES - WEAK BLOW - RECOVERED 5' OF MUD - NO SHOW OF OIL OR GAS - SHUT IN 30 MINUTES - IFP 0 - FFP 0 - ISIP 0 - FSIP 0 - HYDROSTATIC PRESSURE 1,000 PSI

DRILL STEM TEST #13 (2,252' - 2,262') - 30 MINUTES - WEAK BLOW - RECOVERED 5' OF MUD - NO SHOW OF OIL OR GAS - SHUT IN 30 MINUTES - IFP 0 - FFP 0 - ISIP 0 - FSIP 0 - HYDROSTATIC PRESSURE 1,000 PSI

DRILL STEM TEST #14 (2,262' - 2,272') - 30 MINUTES - WEAK BLOW - RECOVERED 5' OF MUD - NO SHOW OF OIL OR GAS - SHUT IN 30 MINUTES - IFP 0 - FFP 0 - ISIP 0 - FSIP 0 - HYDROSTATIC PRESSURE 1,000 PSI



WATERMAN, GAST MINERAL OIL COMPANY, LLC
#1 SCK 1
1320' FSL & 330' FWL
SECTION 17 - 15N - 09E
FORMOSA
VERMILLION COUNTY, KANSAS

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

Kansas
Corporation Commission

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

Susan K. Duffy, Chair
Dwight D. Keen, Commissioner
Andrew J. French, Commissioner

Laura Kelly, Governor

May 18, 2023

Tom Raney
Raney Oil Company, LLC
4665 BAUER BROOK CT.
LAWRENCE, KS 66049-9013

Re: ACO-1
API 15-035-24761-00-00
BLACK 1
NW/4 Sec.23-34S-05E
Cowley County, Kansas

Dear Tom Raney:

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

The above referenced well was spudded on 12/01/2022 and the ACO-1 was received on May 16, 2023 (not within the 120 days timely requirement).

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

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

Sincerely,

Production Department