KOLAR Document ID: 1740069

For	ксс	Use:
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Effective	Dat
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District	#	
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SGA?	Yes	No

Form

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

Form C-1 March 2010 Form must be Typed Form must be Signed All blanks must be Filled

NOTICE OF INTENT TO DRILL

Must be approved by KCC five (5) days prior to commencing well

		-		-
KSONA-1, Certification of Com	pliance with	the Kansas	Surface Owner Notification Act,	MUST be submitted with this form.

Expected Spud Date:	Spot Description:
month day year	(2/2/2/2/2)
OPERATOR: License#	feet from N / S Line of Section
Name:	feet from L E / W Line of Section
Address 1:	Is SECTION: Regular Irregular?
Address 2:	(Note: Locate well on the Section Plat on reverse side)
City: State: Zip: +	County:
Contact Person:	Lease Name: Well #:
Phone:	Field Name:
CONTRACTOR: License#	Is this a Prorated / Spaced Field?
Name:	Target Formation(s):
Wall Drillad Far: Wall Class: Two Equipment:	Nearest Lease or unit boundary line (in footage):
	Ground Surface Elevation:
Oil Enh Rec Infield Mud Rotary	Water well within one-quarter mile:
Gas Storage Pool Ext. Air Rotary	Public water supply well within one mile:
	Depth to bottom of fresh water:
	Depth to bottom of usable water:
	Surface Pipe by Alternate:
If OWWO: old well information as follows:	Length of Surface Pipe Planned to be set:
On earlier	Length of Conductor Pipe (if any):
Operator:	Projected Total Depth:
Original Completion Date: Original Total Depth:	Formation at Total Depth:
	Water Source for Drilling Operations:
Directional, Deviated or Horizontal wellbore?	
If Yes, true vertical depth:	
Bottom Hole Location:	(Note: Apply for Permit with DWR)
KCC DKT #:	Will Cores be taken?
	If Yes, proposed zone:

AFFIDAVIT

The undersigned hereby affirms that the drilling, completion and eventual plugging of this well will comply with K.S.A. 55 et. seq.

It is agreed that the following minimum requirements will be met:

- 1. Notify the appropriate district office *prior* to spudding of well;
- 2. A copy of the approved notice of intent to drill shall be posted on each drilling rig;
- 3. The minimum amount of surface pipe as specified below **shall be set** by circulating cement to the top; in all cases surface pipe **shall be set** through all unconsolidated materials plus a minimum of 20 feet into the underlying formation.
- 4. If the well is dry hole, an agreement between the operator and the district office on plug length and placement is necessary prior to plugging;
- 5. The appropriate district office will be notified before well is either plugged or production casing is cemented in;
- 6. If an ALTERNATE II COMPLETION, production pipe shall be cemented from below any usable water to surface within 120 DAYS of spud date. Or pursuant to Appendix "B" - Eastern Kansas surface casing order #133,891-C, which applies to the KCC District 3 area, alternate II cementing must be completed within 30 days of the spud date or the well shall be plugged. In all cases, NOTIFY district office prior to any cementing.

For KCC Use ONLY	
API # 15	
Conductor pipe required	feet
Minimum surface pipe required	feet per ALT. I
Approved by:	
This authorization expires: (This authorization void if drilling no	ot started within 12 months of approval date.)
Spud date:	Agent:

Remember to:

- File Certification of Compliance with the Kansas Surface Owner Notification Act (KSONA-1) with Intent to Drill;
- File Drill Pit Application (form CDP-1) with Intent to Drill;
- File Completion Form ACO-1 within 120 days of spud date;
- File acreage attribution plat according to field proration orders;
- Notify appropriate district office 48 hours prior to workover or re-entry;
- Submit plugging report (CP-4) after plugging is completed (within 60 days);
- Obtain written approval before disposing or injecting salt water.
- If well will not be drilled or permit has expired (See: authorized expiration date) please check the box below and return to the address below.

ш

Well will not be drilled or Permit Expired Date: _ Signature of Operator or Agent: For KCC Use ONLY

API # 15 -___

IN ALL CASES PLOT THE INTENDED WELL ON THE PLAT BELOW

In all cases, please fully complete this side of the form. Include items 1 through 5 at the bottom of this page.

Operator:	Location of Well: County:
Lease:	feet from N / S Line of Section
Well Number:	feet from E / W Line of Section
Field:	Sec Twp S. R E 📃 W
Number of Acres attributable to well:	Is Section: Regular or Irregular
	If Section is Irregular, locate well from nearest corner boundary.
	Section corner used: NE NW SE SW

PLAT

Show location of the well. Show footage to the nearest lease or unit boundary line. Show the predicted locations of lease roads, tank batteries, pipelines and electrical lines, as required by the Kansas Surface Owner Notice Act (House Bill 2032). You may attach a separate plat if desired.



In plotting the proposed location of the well, you must show:

- 1. The manner in which you are using the depicted plat by identifying section lines, i.e. 1 section, 1 section with 8 surrounding sections, 4 sections, etc.
- 2. The distance of the proposed drilling location from the south / north and east / west outside section lines.
- 3. The distance to the nearest lease or unit boundary line (in footage).
- 4. If proposed location is located within a prorated or spaced field a certificate of acreage attribution plat must be attached: (C0-7 for oil wells; CG-8 for gas wells).
- 5. The predicted locations of lease roads, tank batteries, pipelines, and electrical lines.

Side Two

KOLAR Document ID: 1740069

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

Form CDP-1 May 2010 Form must be Typed

APPLICATION FOR SURFACE PIT

Submit in Duplicate			
Operator Name:		License Number:	
Operator Address:			
Contact Person:		Phone Number:	
Lease Name & Well No.:			Pit Location (QQQQ):
Type of Pit:	Pit is:		·
Emergency Pit Burn Pit	Proposed	Existing	SecTwpR East West
Settling Pit Drilling Pit	If Existing, date co	nstructed:	Feet from North / South Line of Section
Workover Pit Haul-Off Pit	Pit capacity:		Feet from East / West Line of Section
		(bbls)	County
Is the pit located in a Sensitive Ground Water A	rea? Yes	No	Chloride concentration: mg/l (For Emergency Pits and Settling Pits only)
Is the bottom below ground level?	Artificial Liner?		How is the pit lined if a plastic liner is not used?
	Yes I	NO	
Pit dimensions (all but working pits):	Length (fe	et)	Width (feet)N/A: Steel Pits
Depth fro	m ground level to dee	epest point:	(feet) No Pit
material, thickness and installation procedure.			
Distance to nearest water well within one-mile of pit: Dep Sou		Depth to shallo Source of infor	west fresh water feet. nation:
feet Depth of water wellfeet		measured	well owner electric log KDWR
Emergency, Settling and Burn Pits ONLY:		Drilling, Worko	ver and Haul-Off Pits ONLY:
Producing Formation:		Type of material utilized in drilling/workover:	
Number of producing wells on lease:		Number of working pits to be utilized:	
Barrels of fluid produced daily:		Abandonment	procedure:
Does the slope from the tank battery allow all spilled fluids to flow into the pit? Yes No		Drill pits must be closed within 365 days of spud date.	
Submitted Electronically			
Date Received: Permit NumI	per:	Permi	Liner Steel Pit RFAC RFAS
			·

KOLAR Document ID: 1740069

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

CERTIFICATION OF COMPLIANCE WITH THE KANSAS SURFACE OWNER NOTIFICATION ACT

Form KSONA-
July 202
Form Must Be Typed
Form must be Signed
All blanks must be Filled

This form must be submitted with all Forms C-1 (Notice of Intent to Drill); CB-1 (Cathodic Protection Borehole Intent); T-1 (Request for Change of Operator Transfer of Injection or Surface Pit Permit); and CP-1 (Well Plugging Application). Any such form submitted without an accompanying Form KSONA-1 will be returned.

Select the corresponding form being filed: C-1 (Intent) CB-1 (Cathodic Protection Borehole Intent) T-1 (Transfer) CP-1 (Plugging Application)

OPERATOR: License #	Well Location:		
Name:			
Address 1:	County:		
Address 2:	Lease Name: Well #:		
City: State: Zip:+	If filing a Form T-1 for multiple wells on a lease, enter the legal description of		
Contact Person:	the lease below:		
Phone: () Fax: ()			
Email Address:			
Surface Owner Information:			
Name:	When filing a Form T-1 involving multiple surface owners, attach an additional		
Address 1:	sheet listing all of the information to the left for each surface owner. Surface owner information can be found in the records of the register of deeds for the		
Address 2:	county, and in the real estate property tax records of the county treasurer.		
City: State: Zip:+			

If this form is being submitted with a Form C-1 (Intent) or CB-1 (Cathodic Protection Borehole Intent), you must supply the surface owners and the KCC with a plat showing the predicted locations of lease roads, tank batteries, pipelines, and electrical lines. The locations shown on the plat are preliminary non-binding estimates. The locations may be entered on the Form C-1 plat, Form CB-1 plat, or a separate plat may be submitted.

Select one of the following:

□ I certify that, pursuant to the Kansas Surface Owner Notice Act (see Chapter 55 of the Kansas Statutes Annotated), I have provided the following to the surface owner(s) of the land upon which the subject well is or will be located: 1) a copy of the Form C-1, Form CB-1, Form T-1, or Form CP-1 that I am filing in connection with this form; 2) if the form being filed is a Form C-1 or Form CB-1, the plat(s) required by this form; and 3) my operator name, address, phone number, fax, and email address.

□ I have not provided this information to the surface owner(s). I acknowledge that, because I have not provided this information, the KCC will be required to send this information to the surface owner(s). To mitigate the additional cost of the KCC performing this task, I acknowledge that I must provide the name and address of the surface owner by filling out the top section of this form and that I am being charged a \$30.00 handling fee, payable to the KCC, which is enclosed with this form.

If choosing the second option, submit payment of the \$30.00 handling fee with this form. If the fee is not received with this form, the KSONA-1 form and the associated Form C-1, Form CB-1, Form T-1, or Form CP-1 will be returned.

Submitted Electronically







O:\SURVEY\BCE-MACH_III\RICKE_817-35S-11W\FINAL_PRODUCTS\LO_JMC_17-8_35-11_1H_REV2.DWG 12/5/2023 12:42:47 PM kunderwoon



SECTION <u>17</u>	TWP35S	_ RGE_	11W	MERIDIAN <u>6TH P.M.</u>		
COUNTY	BARBER		STATE _	KANSAS		
DESCRIPTION	225' FSL & 1300' FEL					
DISTANCE & DIRECTION						
FROM KIOWA, KS GO ±1.25 MI. SOUTH ON KS-8, THEN GO ±2.25 MI.						
WEST ON E0010 RD. TO THE SOUTHEAST CORNER OF SECTION						
17-T35S-R11W.						

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY BCE-MACH III, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE KANSAS STATE PLANE COORDINATE SYSTEM, SOUTH ZONE OF THE NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET AND THE NATIONAL GEODETIC VERTICAL DATUM OF 1929.



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



Mach Resources JMC 17/8-35-11 1H Drilling Procedure

Phase Descriptions

Hole Section	Activity	Beginning	End
MOB	MIRU	RR of previous well	On bottom ready to drill out
Surf	Drill	New hole drilled past conductor	TD reached in hole section
	Cond/Trip	Start CUC	Finish LD BHA
	Csg	Start RU csg crew	Complete drill out of csg shoe
Int Deep	Drill	New hole drilled past Int Shallow Csg shoe	TD reached at KOP
	Cond/Trip	Start CUC	On bottom w/curve assembly
	Drill - Curve	New hole drilled w/curve assembly	TD reached at end of curve
	Cond/Trip - Curve	Start CUC	Finish LD BHA
	Csg	Start RU csg crew	Complete drill out of csg shoe
Prod	Drill - Lat	New hole drilled beyond 7" Csg shoe	Lateral TD Reached
	Cond/Trip	Start CUC	Finish LD BHA
	Csg	Start RU csg crew	Rig Release

Well Control Best Practices

Under no circumstance is the drilling team to risk their safety in order to recover a well control situation. The protection of human life is the paramount concern in any well control situation.

Always CBU at least one time prior to tripping out of the hole, regardless of previous drilling speed or mud weight variations. Check for flow on a regular basis. Make note on daily report for every trip.

Co Man in charge of the rig is to personally ensure that the flow and pit level alarms are functional prior to all trips, and that they are in use on a daily basis while drilling.

Confirmation of this check should be added to the daily report. Do not transfer mud during trips, this is to ensure an accurate trip sheet.

The PVT equipment is critical and pit volumes/gain-loss should be in working order. Performing a pit drill is a great way to test equipment and response.

Make sure alarms are not being by-passed. Make note on daily report when equipment is checked.

Maintain a trip sheet while tripping out and in the hole. It is the Co Man's responsibility to ensure the correct fill/displacement volumes are being used and the fill/displacement volumes are being accurately monitored.

Install and test the BOP, choke manifold, gas buster, and flare line prior to drill out of the surface casing. The Co Man is to document in the morning report that this action has been completed

Install slip on riser to conductor

Drill surface w/ FW Perform pre-spud inspection and maintenance

MU the following BHA

No.	Component Description	OD (in)	ID (in)	Component	Total Length (ft)
				Length (ft)	
1	Taurex PDC	12.25	NA	1.5	1.5
2	XO sub	8.00	2.25	2.5	4.0
3	1.83° motor, 7/8 5.7, 0.24 rpg	7.00	NA	34.7	38.7
4	UBHO sub	6.75	2.75	3.0	41.7
5	(2) NMDC's - Slick	6.50	3.25	61.3	103.0
6	X/O sub	6.50	2.75	1.9	104.9
7	4" HWDP	4.00	2.56	195.2	300.0

**7" lower end w/ 6-3/4" power section

Surface Hole (12.25"): 0'- 300' MD

- Drill surface hole to ~300'. BTW is 180'. Minimum set depth is 247'. Max set depth is 430'. Use the following parameters: Pump Rate: 400-650 gpm
- WOB: 5-10k (run light weight to keep hole straight, achieve ROP through rpm's and gpm's)
- Rotary: 90+ rpm

Notes:

- Pump sweep a minimum of every connection or as needed
- Take survey at TD
- Start logging with gamma as soon as you spud

Once at TD, pump sweep. Continue sweeping hole until cutting volume coming across shakers with sweep returns to normal

Make wiper trip to NMDC's, noting any tight spots. Do not pull more than 20k over string weight if tight spots are seen. - Ensure slips and tong dies are in working order prior to starting trip

Rack back dir tools and 4" HWDP

RU Csg Crew to run 9-5/8" 36# J55 LTC csg

- Contact George Russell at least three days prior to running to order csg. All efforts should be made to call on weekdays during business hours to avoid overtime charges. George Russell (575) 318-7334, GRussell@machresources.com

- Order surface casing to arrive same day as rig move, rig is ready to spud within 24 hours!
- Once csg is on location clean and drift csg (8.765")
- Contact cementers at least 8 hrs prior to cmt'ing

RIH w/ 9-5/8" 36# J55 LTC csg as follows:

- Guide shoe (Weatherford no valve)
- 1 joint of 9-5/8" 36# J55 LTC csg
- Float collar, PDC drillable (Use Weatherford wiper plug)
- 9-5/8" 36# J55 LTC csg to surface

Notes:

- Baker lock shoe, shoe track, and collar
- Once shoe track is MU, pump through prior to cont. RIH
- Do not run any centralizers or cement baskets
- Tag bottom with csg and space out so cmt head is 5-6' above rig floor

Circulate csg capacity at 8 bpm while RD csg crew and RD lay down machine

RU cmt crew and test lines to 3000 psi.

Cmt the 9-5/8" csg w/the following cmt slurries, using pump schedule below: - Lead Slurry (To Surface)

	Weight	11.40 ppg	
	Yield	2.95 cuft/sk	
	Mix Water	18.16 gal/sk	
	Excess	100%	
	Lead Cmt Volume	75 sacks	
- Tail Slurry (200')			
	Weight	13.20 ppg	
	Yield	1.86 cuft/sk	
	Mix Water	9.98 gal/sk	
	Excess	100%	
	Open hole cmt volume	85 sacks	
	Shoe track volume	10 sacks	
	Tail Cmt Volume	95 sacks	

Pump Schedule					
Fluid	Volume (bbls)	Rate (bpm)			
Fresh Water Spacer	40.0	5			
Lead Slurry	39.4	5			
Tail Slurry	31.5	5			
Plug					
Fresh Water	20.1	8			

Adjust volumes for actual depths - confirm casing weight/ID for displacement volume

- Slow pump rate down to 2-3 bpm 10 bbls prior to bumping the plug. Bump plug w/ 250 psi over final circulating pressure.

- Do not over displace by more than 1/2 shoe track volume (1.6 bbls)

- Release pressure and check if flt is holding. If flt does not hold, pressure up and check again. If flt still does not hold, trap final displacement pressure

+250 psi and wait for 4 hrs. Release cementers if floats don't hold to avoid extra charges.

- Generate cmt and casing report in WellView (include float collar depth in WV)

- Record cmt details on morning report, include the following: slurries (yield & volumes), displacement fluid and volume, volume of cmt circulated to surface, lift and final pressure, and if returns were full or partial

Cut off conductor and weld on 9-5/8" SOW x 11" 5M head, test head to 1010 psi (limit to 50% of csg collapse).

NU BOP's and related well control equipment

- Ensure all necessary well control equipment is rigged up prior to drilling out of the surface csg

Test BOP rams/manifold to 250/5000 psi and annular to 250/3000 psi. Test all floor valves and back to pumps to 4250 psi Test 9-5/8" Surface casing to 250 psi, or 0.2 psi/ft (whichever is greater), and hold for 30 mins. Install wear bushing - company man needs to be present to verify

MU the following BHA (confirm BHA w/engineer & supt)

No.	Component Description	OD (in)	ID (in)	Component	Total Length (ft)
				Length (ft)	
1	Taurex TXt516 (5x14's)	8.75	NA	1.0	1.0
2	1.83° motor, 7/8 5.7, 0.24 rpg	7.00	NA	34.7	35.7
3	UBHO Sub	6.50	2.84	2.7	38.4
4	NMDC (Slick)	6.57	3.25	30.5	68.9
5	NMDC (Slick)	6.56	2.83	28.8	97.7
6	X/O Sub	5.00	2.50	1.7	99.4
7	4" HWDP - 9 stands + 2 jts	4.00	2.56	899.0	998.4
8	8.5" IBS	8.50	2.25	4.4	1002.8
9	4" HWDP - 5 stands + 1 jt	4.00	2.56	496.0	1498.8
10	4" DP	4.00	2.56	2724.9	4223.7

- Close blind rams when working with BHA above rotary, always check for pressure prior to opening blind rams again ***7" lower end w/ 6-3/4" power section

Have DD's measure and confirm bend setting is correct

Test MWD and MU bit

TIH, tag flt collar (record depth that float collar was tagged in WV)

If you haven't already, test Csg to **250 psi, or 0.2 psi/ft (whichever is greater), and hold for 30 mins**. If pressure drops more than 10% during test contact drlg supt/eng

Drill out shoe track 10' of new formation, and CBU until mud is free of cuttings and is of uniformed density.

Test shoe to 12# EMW using guide lines below:

- Pull the bit up into the casing shoe

- Install TIW, close valve and test lines with drilling fluid to a minimum of 1000 psi above the maximum pressure anticipated.

Ensure that there are no surface leaks. Bleed off pressure. Open valve and break circulation. Shut down

- Close annular preventer or pipe rams. Verify that chokes are closed.

- Pump down the drill pipe at a constant rate throughout the test, using the lowest rate possible

- Continue pumping until the maximum specified FIT limit is achieved or until a definitive break-over in pressure is observed, whichever comes first

Calculate the test pressure as follows P = (FIT - MW)(.052*TVD)FIT or LOT = Formation Integrity Test/Leak Off Test (ppge) MW = Mud Weight (ppg) P = Maximum Test Pressure (psi) or Leak Off Pressure (psi) TVD = TVD of csg shoe (ft) 0.052 = Conversion Factor

- Shut down the pump immediately and record the $\ensuremath{\mathsf{ISIP}}$ (instantaneous shut-in pressure).

- Record the shut-in pressures every minute thereafter for a minimum of ten minutes.

- Bleed off pressure and measure fluid volume recovered, if possible. If shoe does not test then contact drlg supt/eng prior to drilling ahead

Offset Well Notes/Issues:

- No issues. Closest offset is the Ricke 5-35-11 2H

Intermediate (8.75"): 300'- 5230' MD

Drill from 300' to 4224', which is 100' above KOP using the following parameters: (Confirm KOP and all other depths w/ directional plan)

- Pump Rate: 500-650 gpm (try to keep pump rate at 650 gpm's down to ~3000' if possible)
- Max Differential: 1430 psi (not using diff or ROP limiters while sliding in vertical/curve appears to be the fastest method)
- Rotary: 50-90 rpm (15-25 rpm in the curve)
- WOB: 10-30k (can slide w/ more WOB in the curve if necessary)

Notes:

- Hand drilling in rotation to 1500' with max WOB appears to be the fastest method
- Maintain MW of 8.7-9.5 ppg

- Catch surveys on the fly, don't wait for them to pump up. Target connection time is 5-6 minutes weight to weight. In the curve go tag bottom after connection while waiting on toolface to pump up (or start rotating and catch svy on the fly if you know you won't be sliding 100%). Target connection time in curve is 8-10 minutes weight to weight.

- Pump sweep every connection or as needed
- Shut down and displace at 2000'. Add/maintain 3-5% ABO in the mud.
- Maintain MW of 8.7-9.5 ppg w/50-60 vis, and WL of 4-6 cc/30 min
- Have pump pop offs set for max liner rating allowed by contractor
- Have mudloggers on the first morning we are drilling the curve (typically 3 days from spud)

MU the following curve BHA (confirm BHA w/engineer & supt)

No.	Component Description	OD (in)	ID (in)	Component	Total Length (ft)
				Length (ft)	
1	Smith X613 (6x14's)	8.75	NA	1.0	1.0
2	2.38° motor, 4/5 7.0, 0.49 rpg	6.63	NA	34.7	35.7
3	UBHO Sub	6.50	2.84	2.7	38.4
4	NMDC (Slick)	6.57	3.25	30.5	68.9
5	NMDC (Slick)	6.56	2.83	28.8	97.7
6	X/O Sub	5.00	2.50	1.7	99.4
7	4" DP - 10 stands	4.00	2.56	930.0	1029.4
8	4" HWDP - 15 stands	4.00	2.56	1395.0	2424.4

- Run 6-5/8" motor (6-3/4" wear pad OD) with NBKP (~7-9/16" OD)

- Drill to a full stand down ~100' above KOP, pump 1 sweep (60-80 bbl, ~110 vis) & 2+ BU's before starting to backream out of the hole to at least 3000', circulate a BU before trying to pull on elevators. PU curve assy, swap out MWD tool, run 2.38 motor (4/5 7.0, 0.49 rpg). LD IBS, rearrange HWDP to put push pipe on bottom, and drill curve per directional plan. Take surveys every 45'. Include tangent start depth and end depth on the WV report.

- Do not back ream curve motor unless forced to do so, pick up with rotary off and ream back to bottom if you are working the pipe (3 minutes up and 3 minutes down, pause 1 sec/1000' before changing direction)

- Once we TD the curve we need to perform a clean-up cycle (CUC) and pump 2 sweeps (60-80 bbl, ~110 vis) & 3+ BU's

- Once we finish the CUC we will prepare to come out and run 7" casing, no wiper trip. High side motor and pump out to KOP (pump up and ream down each stand twice), at KOP circulate 2 sweeps (3+ BU's) before starting to TOOH.

LD directional BHA, and pull wear bushing - company man needs to be present to verify

- Close blind rams when working with BHA above rotary, always check for pressure prior to opening blind rams again

RU Csg Crew to run 7" 26# P110 TCBC-HT csg

- Contact George Russell at least three days prior to running to order csg. All efforts should be made to call on weekdays during business hours to avoid overtime charges. George Russell (575) 318-7334, GRussell@machresources.com

- Once csg is on location clean and drift csg w/API drift (6.151"), 29# needs to special drift. Confirm that 7" mandrel and landing joint has been drifted.

- Contact cementers at least 8 hrs prior to cmt'ing

RIH w/ 7" csg as follows:

- Float shoe (Weatherford)
- 1 flt joint of 7" 26# P110 TCBC-HT csg
- Float collar, PDC drillable (Use Weatherford wiper plug)

- 7" 26# P110 TCBC-HT csg to surface

Notes:

- Baker lock all connections to 2 jts above the flt collar
- Once shoe track is MU, pump through prior to cont. RIH
- Have enough fresh water at rig for cmt job
- Fill pipe and break circulation every 30 to 40 jts or if displacement stops or becomes weak

- MU 6 1/8" BHA while building the curve and rack it back

- Once we start running our 7" casing we need to utilize the CRT tool if needed, especially once we get into the curve. We are running TCBC-HT casing that has an operating torque of ~22000 ft-lbs (confirm torque specs) so we have the option to rotate the casing if we start to have issues running pipe. Do not slack off below 80k unless discussed with supt.

- Land out casing and circulate 1.5x casing capacity Cont to circulate, while RU cmt crew and test lines to 5000 psi.

Cmt the 7" csg w/the following, using pump schedule below: - Lead Slurry (TOC 3794')

Weight	10.20 ppg
Yield	5.49 cuft/sk
Mix Water	35.89 gal/sk
Excess	30%
Calculated Lead Cmt Volume	65 sacks
Pump Time	TBD hrs (typical pump time 3.5 - 5 hrs)
Tail Slurry (Tail height is ~1000')	
Weight	13.80 ppg
Yield	1.39 cuft/sk
Mix Water	6.57 gal/sk
Excess	30%
Open hole cmt volume	144 sacks
Shoe track volume	6 sacks
Tail Cmt Volume	150 sacks
Pump Time	TBD hrs (typical pump time 3.5 - 5 hrs)

Pump Schedule				
Fluid	Volume (bbls)	Rate (bpm)		
Fresh Water Spacer	40.0	5		
Lead Slurry	63.6	5		
Tail Slurry	37.1	6		
Plug				
Fresh water	198.1	6		

Adjust volumes for actual depths - confirm casing weight/ID for displacement volume

- When you cement your 7" casing be sure to displace your cement with FW

- Slow pump rate down to 2-3 bpm 10 bbls prior to bumping plug. Bump plug 500 psi over final circulating pressure.

- Do not over displace by more than 1/2 shoe track volume (0.75 bbls)

-After we bump plug @ 500 psi over, pressure up to 1500 psi (or 0.2 psi/ft, whichever is greater) and hold for 30 min for casing test. If pressure drops more than 10% contact drilling supt/eng

- Release pressure and check that flt is holding. If flt does not hold, pressure up and check again. If flt still does not hold, trap final displacement pressure +500 psi and wait for 4 hrs. Release cementers if floats don't hold to avoid extra charges.

- Generate cmt and casing report in Wellview

- Record cmt details on morning report, include the following: slurries (yield & volumes), displacement fluid and volume, volume of cmt circulated to surface, lift and final pressure, and if returns were full or partial

- Include depth of 7" shoe and 7" float collar based on 7" csg tally in WV report (time log)

Run pack off and tighten down lock screws, test to 5000 psi

MU the following BHA while building the curve (confirm BHA w/engineer & supt)

No.	Component Description	OD (in)	ID (in)	Component Length (ft)	Total Length (ft)
1	NOV TKC53-M1 (5x12's)	6.13	NA	1.0	1.0
2	1.75°, 6/7 8.8, 0.66 rpg motor	5.00	NA	31.2	32.2
3	5.75" Nortrac Stabilizer	5.75	2.50	5.4	37.6
4	UBHO Sub	4.75	2.50	2.6	40.3
5	(2) NMDC's - Slick	4.75	2.75	60.0	100.3
6	X/O Sub	4.75	2.50	2.0	102.3
7	(1 jt) 4" DP	4.00	2.56	31.0	133.3
8	DL Reamer	5.19	2.69	4.0	137.2
9	4" DP	4.00	2.56	2362.8	2500.0
10	NOV Agitator	4.75	NA	27.0	2527.0
11	4" DP	4.00	3.00	5597.0	8124.0
12	4" HWDP	5.00	2.60	1395.0	9519.0
13	4" DP	4.00	2.56	2928.7	12447.7

- Have DD's measure and confirm bend setting is correct

- Arrange HWDP so that bottom is @ KOP when at TD (make sure to confirm DP tally is correct when TIH with stands of push pipe that were built while drilling the curve)

- PU NOV agitator and run 2500' behind the BHA (set up agitator flow rate for 325 gpm's)

- Close blind rams when working with BHA above rotary, always check for pressure prior to opening blind rams again

- Test MWD and MU bit

- TIH, tag flt collar - record depth that float collar was tagged in WV report (time log)

- Drill out cmt and float equipment

Offset Well Notes/Issues:

- Possible losses, be mindful of reducing surge on the wellbore (pipe moving speed, especially during a clean up cycle with the pump on the hole)

Production (6.125"): 5230'- 12448' MD

Drill lateral per dir plan from 5230'-12448' staying within target box (+/-5' TVD and +/-25' E/W). Using the following drilling parameters:

- Pump Rate: 200-350 gpm

- Max Differential: 2070 psi (not using diff or ROP limiter while sliding in lateral appears to be the fastest method)

- WOB: Start at 32k and work up to 35k by TD if needed

- Rotary: 50-100 rpm

- ROP Target: Start at 100 fph and work up from there

Notes:

- Drill interval with <8.8 ppg FW

- Catch surveys on the fly, don't wait for them to pump up. Target connection time is 5-6 minutes weight to weight. Take surveys a minimum of every 45'. On connections kick rotary in first, then bring on pumps after rotation has been etablished.

- Jet your pits and fill them with FW. Try to limit lube usage to 3 totes per lateral. Wait until hole conditions suggest lube will be beneficial before adding, when we start to add lube add it in 1/2 tote increments. Discuss w/ supt before using additional lube beyond 3 totes. Consider pumping <u>SOAP</u> if differential sticking is encountered (discuss w/ supt).

- Before any TOOH in the lateral we need to perform a clean-up cycle (CUC) and circulate 1 sweep (20 bbls) per 1000' drilled or 2 sweeps, whichever is greater. If it is a 1-bit lateral, pump **9** sweeps

o These are minimum requirements for the # of sweeps, if they are still bringing up cuttings then continue to sweep the hole until it cleans up

o Max out the rotary during these CUC's, 100 rpm's is desired

o Max out your flow rate based on the motor's limitations, 350 gpm's is desired

o Work the stand at 3 min up and 3 min down, pausing 1 sec/1000' before changing direction

- Before we run the liner we will follow the same CUC procedures as listed above but we will add a dedicated reamer run. PU DC's on the reamer run (keeping them in the vertical) and TIH as far as we can with reamer, ream to bottom once we tag up. Short trip back above the depth we tagged up at.

o Spot a Bull Dog Worm Proof pill before TOOH for dedicated reamer run.

o If we trip straight to bottom then turn around and come out of the hole, don't pump a bottoms up. Check for flow at the 7" shoe.

TD well at approximately 12448', keeping BHL at least 340' from lease line.

- Once we finish our dedicated reamer run we will TOOH to run our liner with 15 stage OH packers and sleeves

- Liner top will be set at the base of the tangent at ~5074', which is 156' inside the 7" casing shoe. Packer spacing will be sent out once we get close to TD.

-When running liner, run enough push pipe to position the bottom of the 4.75" DCs (15 stands) @ KOP. Position all stands of 4" HWDP directly on top of DCs.

Once we finish TOOH, LD directional BHA and pull wear bushing - company man needs to be present to verify - Close blind rams when working with BHA above rotary, **always check for pressure prior to opening blind rams again**

RU Csg Crew to run 4-1/2" 11.60# P110 BTC csg

- Contact George Russell at least three days prior to running to order csg. All efforts should be made to call on weekdays during business hours to avoid overtime charges. George Russell (575) 318-7334, GRussell@machresources.com

- Once csg is on location clean and drift csg w/API drift (3.875")

- Run liner with OH packers and sleeves per approved workbook, set & test liner top to 1500 psi for 15 min, then LDDP & prep to RR

Offset Well Notes/Issues:

- Possible losses, if we lose returns minimize flow rate and keep a pump on the backside
- Have mudloggers on the first morning we are drilling the curve (typically 3 days from spud)
- AC Notes: No major concerns
- 7" shoe is planned at 613' FSL @ 388' VS
- Planned TD of 12448' @ 7605' VS is 340' FNL & 1840' FEL of 8-T35S-R11W, drill to 7605' VS



Summary						
	Reference	Offset	Dista	nce		
Site Name Offset Well - Wellbore - Design	Measured Depth (usft)	Measured Depth (usft)	Centres (usft)	Ellipses (usft)	Factor	Warning
SEC 5-T35S-R11W						
RICKE 5-35-11-2H - HORIZONTAL - HORIZONTAL	12,447.73	4,619.02	423.16	354.53	6.166	CC, ES, SF









JMC 17-8-35-11 1H

		WEL	L DETAII	LS: JMC	17-8-35-11	1H		
+E/-W 0.00	EI	LEVATION Nortl 12115	ON: 134 hing 6.00	5' GL + 1 E 1989	6' KB @ 130 Easting 667.00	61.00usft La 36.999	atitude 939585	
			DESIGN	TARGET	DETAILS			
P: 50' FS HL: 340' I	L & 1840' FNL & 184	FEL 0' FEL	4	TVD 252.97 826.64	+N/-S -175.50 7604.50	+E/-W -537.70 -488.90	Northii 120980. 128760.	ng 50 50
			SEC	CTION DET	AILS			
MD 0.00 400.00 1399.90 1538.54 3538.35 4323.69 4923.69 5073.69 5230.11 5402.11 2447.73	Inc 0.00 0.00 20.00 20.00 0.00 0.00 60.00 60.00 81.90 90.50 90.50	Azi 0.00 0.00 251.92 251.92 360.00 360.00 0.36 0.36 0.36 0.36 0.36	TVD 0.00 400.00 1379.72 1510.00 3469.45 4254.79 4750.99 4825.99 4825.99 4876.73 4888.12 4826.64	+N/-S 0.00 0.00 -53.60 -68.31 -175.50 -175.50 110.97 240.87 387.83 559.29 7604.50	+E/-W 0.00 0.00 -164.21 -209.28 -537.70 -537.70 -535.90 -535.08 -534.16 -533.08 -488.90	Dleg 0.00 0.00 2.00 0.00 1.00 - 0.00 - 10.00 0.00 14.00 5.00 0.00 7	VSect 0.00 0.00 -53.60 -68.31 175.50 175.50 175.50 110.97 240.87 387.83 559.29 604.50	
ARBER EC 17-T MC 17-8 RIGINAI LAN 1	CO. KAN 35S-R11 -35-11 1H L WELLF	ISAS (N/ W I PATH	AD27)		Geodetic E	System: L Datum: M Ilipsoid: C Zone: M	JS State F NAD 1927 Clarke 186 Kansas Sc	יום (N 6 סע ^י
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BCE-MACH III LLC JMC 17/8-35-11 1H API #:15-007-#### Sec 17, T35S, R11W Barber County, Kansas Proposal #46430001 Service point El Reno, Oklahoma 12/4/2023 Rig - TBD

Price Book Version 020422-1

Prepared for:	Prepared by:
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Contact:

Clint Symes Cementing Operations Coordinator clint.symes@spinnakeroil.com (405) 808-1162

Contact:

Scott Walton El Reno - Area Field Manager scotty.walton@spinnakeroil.com (405) 535-6561



Spinnaker - Primary Cementing Best Practices

Primary cement job failures are predominately due to a breakdown in the "displacement process." This results in poor zonal isolation manifested by channeling or non-uniform displacement of the annular fluid(s) by the cementing fluid(s). These guidelines will enhance the displacement process and improve the probability of successful primary cementing.

1) Flow Rate: Regardless of the flow regime, high-energy displacement rates are most effective for ensuring good displacement. Turbulent flow conditions are usually more desirable, but frequently cannot be achieved or are not always required. When turbulent flow is not a viable option for a situation, use the highest pump rate that is feasible for the wellbore conditions. The best results are obtained when (1) the spacer and/or cement is pumped in such a way as to deliver maximum energy to the annulus, (2) the spacer or flush is appropriately designed to remove the drilling fluid, (3) and a competent cement is used.

2) Conditioning the Drilling Fluid: The condition of the drilling fluid is one of the most important variables in achieving good displacement during a cement job. A fluid that has excellent properties for drilling may be inappropriate for cementing purposes. Regaining and maintaining good mobility is the key. An easily displaced drilling fluid will have low, non-progressive gel strengths and low fluid loss. Pockets of gelled fluid, which commonly exist following the drilling of a wellbore, make displacement difficult. These volumes of gelled fluid must be broken up and mobilized.

Industry experience has indicated that it may be necessary to circulate up to ten complete hole volumes prior to the cement job in order to ensure that the hole is well conditioned and clean. A minimum of two bottoms-up is recommended in all scenarios prior to pumping.

3) Spacers and Flushes: Spacers and flushes are effective displacement aids because they separate unlike fluids such as cement and drilling fluid, and enhance the removal of gelled mud allowing a better cement bond. Spacers can be designed to serve various needs. For example, weighted spacers can help with well control, and reactive spacers can provide increased mud-removal benefits. Flushes are used for thinning and dispersing drilling fluid particles. Typically, 8 to 10 minutes contact time or 1000 feet of annular space with spacers or flushes, whichever is greater, are adequate.

4. Pipe Centralization: Centralizing the casing with mechanical centralizers across the intervals to be isolated helps optimize drilling fluid displacement. Good pipe standoff insures a uniform flow pattern around the casing and helps equalize the force that the flowing cement exerts around the casing, increasing drilling fluid removal. In a deviated wellbore, standoff is even more critical to prevent a solids bed from accumulating on the low-side of the annulus. Generally, the industry strives for about 70% standoff.

5) Pipe Movement: Pipe movement is one of the most effective methods of transferring energy downhole. Pipe rotation or reciprocation before and during cementing helps break up gelled, stationary pockets of drilling fluid and loosens cuttings trapped in the gelled drilling fluid. If the pipe is poorly centralized, pipe movement can compensate by changing the flow path through the annulus and allowing the slurry to circulate completely around the casing. The industry does not specify a minimum requirement for pipe movement, however it is acknowledged the even a small amount of pipe movement will enhance the displacement process.

6) Hole Size: Best mud displacement under optimum rates is achieved when annular tolerances are approximately 1.5 to 2 inches. Centralization of very small annuli is very difficult, and pipe movement and displacement rates may be severely restricted. Very large annuli may require extreme displacement rates to generate enough flow energy to remove the drilling fluid and cuttings.

7) Wiper Plugs: Top & bottom wiper plugs are recommended on every primary cementing job unless prohibited by mechanical or other special restrictions. The bottom plug serves to minimize contamination of the cement as it is pumped, in some cases it may be prudent to use multiple bottom plugs to separate mud/spacer and spacer/cement interfaces. The top plug is used to prevent any contamination of the cement slurry by the displacement fluid and minimize the chances of leaving a cement sheath inside the casing. Top plug also gives a positive indication that the cement has been displaced.

8) Rat Hole: When applicable, a weighted, viscous pill in the rat hole prevents cement from swapping with lighter weight mud during the cement job or when displacement stops.

9) Shoe Joint: A shoe joint is recommended on all primary casing/liner jobs. The length of the shoe joint will vary. The absolute minimum length is one joint of pipe. If conditions exist, such as not running a bottom plug, two joints of pipe is a minimum requirement.

BCE-MACH III LLC JMC 17/8-35-11 1H Barber County, Kansas



JOB TYPE CASING SIZE HOLE SIZE

TOTAL DEPTH EXCESS FILL REQUIRED BHST BHCT

<u>Job Data</u>

Surface 9.625 in., 36 lbs, J-55 LTC 12.25 in.

300 Feet 225% 300 Feet 83 Degrees 80 Degrees

FLUID REQUIREMENTS

SPACER

LEAD CEMENT SLURRY

WEIGHT YIELD WATER TOC BBLS of Slurry

TAIL CEMENT SLURRY

WEIGHT YIELD WATER TOC BBLS of Slurry

DISPLACEMENT

40 bbls H20

75 Sacks Oilwell Standard Cement, 3% Gypsum, 1% SMS, 2.5% Calcium Chloride, 0.25 lbs Poly Flake

11.4 ppg 2.95 cu.ft./sk 18.16 gals/sk **Surface** 39.41 bbls

95 Sacks Oilwell Standard Cement, 3% Gypsum, 1% SMS, 2.5% Calcium Chloride, 0.25 lbs Poly Flake

13.2 ppg 1.86 cu.ft./sk 9.98 gals/sk 150 ft 31.48 bbls

20.11 bbls H20



Ref. #	Description	Quantity	Unit Price	Sub Total	Total
	********* Cementing Service and Materials *********				
MLPU1	Pickup Mileage 1 unit (roundtrip miles)	280	\$3.94	\$1,103.20	\$529.54
MLHE2	Heavy Vehicle Mileage 2 units (roundtrip miles)	280	\$13.56	\$3,796.80	\$1,822.46
MLTN	Bulk Cement Delivery/Return (per Ton-Mile)	1,195	\$2.73	\$3,262.35	\$1,565.93
MXBK	Bulk Material Mixing Service Charge (Per cu.ft.)	170	\$3.03	\$515.10	\$247.25
CMTHD	Cement Head with manifold (per Job)	1	\$1,895.00	\$1,895.00	\$909.60
PC1K	Pump Charge 0-1000' (Per 4 hrs)	1	\$1,887.60	\$1,887.60	\$906.05
DAQ	Data Acquisition System	1	\$1,331.00	\$1,331.00	\$638.88
FLSCG	Fuel Surcharge (per unit/per job)	2	\$605.00	\$1,210.00	\$580.80
ENVFEE	Environmental Fee	1	\$211.75	\$211.75	\$101.64
DAMSS	Data Monitoring System/Supervisor	1	\$800.00	\$800.00	\$384.00
CIRON	Circulation Equipment (40' of equipment per job)	2	\$1,512.50	\$3,025.00	\$1,452.00
CSTD	Class A Type Standard Cement (per sack)	170	\$31.81	\$5,407.70	\$2,595.70
CEXTGYP	Gypsum (per lb)	480	\$0.54	\$259.20	\$124.42
CACCSMS	SMS (per lb)	160	\$3.86	\$617.60	\$296.45
CACCCC	Calcium Chloride (per lb)	400	\$1.45	\$580.00	\$278.40
CLCMPF	Poly Flake (per lb)	43	\$3.23	\$138.89	\$66.67
	Additional Items if used				
PCADD	Primary Pump Unit Addl Hours	0	\$594.50	\$0.00	\$0.00
RESTK	Product Restocking Fee (per truck)	0	\$1,250.00	\$0.00	\$0.00
DERKC	Derrick Charge (Cement Head Stabbing Above 8 ft)	0	\$726.00	\$0.00	\$0.00
CDFDIAL	ATF Cement Defoamer (per gal)	0	\$29.50	\$0.00	\$0.00
FTRP958	9 5/8" Top Rubber Plug	0	\$220.00	\$0.00	\$0.00
ADDHOSE	Additional HOSES (above 120 ft/per ft)	0	\$3.55	\$0.00	\$0.00
				* ~~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
	Book Price			\$26,041.19	

	Estimated Total (Exclusive of Sales Tax)				\$12,499.77

BCE-MACH III LLC JMC 17/8-35-11 1H Barber County, Kansas



JOB TYPE CASING SIZE HOLE SIZE MUD TVD MD EXCESS

BHST BHCT Intermediate 7 in., 26 lbs, P-110 TCBC-HT 8.75 in. 8.7-9.5 ppg WBM

4827 ft 5230 ft **30%**

132 Degrees 105 Degrees

Job Data

FLUID REQUIREMENTS

SPACER

LEAD CEMENT SLURRY

WEIGHT YIELD WATER TOC BBLS OF SLURRY

TAIL CEMENT SLURRY

WEIGHT YIELD WATER TOC BBLS OF SLURRY

DISPLACEMENT

40 bbls Fresh Water

65 Sacks 65/35 Oilwell Standard Cement/Poz, 12% GEL, 12% Gypsum, 1.5% SA-2, 12% SFA, 0.4 lbs Poly Flake, 0.2% Fine Super Fiber 10.2 ppg 5.5 cu.ft./sk 35.87 gals/sk **3794 feet 63.68 bbls**

150 Sacks 50/50 Oilwell Standard Cement/Poz, 3% GEL, 2% Gypsum, 0.35% SFL-5, 0.25 lbs Poly Flake, 0.1% Fine Super Fiber

13.8 ppg 1.39 cu.ft./sk 6.61 gals/sk 4230 feet 37.14 bbls

198.4 bbls H20



Ref. #	Description	Quantity	Unit Price	Sub Total	Total
	******** Cementing Service and Materials ********				
MLPU1	Pickup Mileage 1 unit (roundtrip miles)	280	\$3.94	\$1,103.20	\$463.34
MLHE2	Heavy Vehicle Mileage 2 units (roundtrip miles)	280	\$13.56	\$3,796.80	\$1,594.66
MLTN	Bulk Cement Delivery/Return (per Ton-Mile)	1,480	\$2.73	\$4,040.40	\$1,696.97
MXBK	Bulk Material Mixing Service Charge (Per cu.ft.)	215	\$3.03	\$651.45	\$273.61
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	\$1,576.50
CPOZF	POZ (per sack)	98	\$17.35	\$1,700.30	\$714.13
CEXTGEL	GEL (per lb)	1,100	\$0.63	\$693.00	\$291.06
CEXTGYP	Gypsum (per lb)	931	\$0.54	\$502.74	\$211.15
CEXTSFA	SFA (per lb)	679	\$1.21	\$821.59	\$345.07
CFL5	SFL-5 (per lb)	45	\$18.56	\$835.20	\$350.78
CFWCSA1	SA-2 (per lb)	85	\$19.52	\$1,659.20	\$696.86
CLCMPF	Poly Flake (per lb)	64	\$3.23	\$206.72	\$86.82
CLCMFBR	Fine Super Fiber (per lb)	24	\$19.28	\$462.72	\$194.34
	Additional Items if used				
STBYPU	Standby Pump Unit	0	\$5,850.00	\$0.00	\$0.00
PCADD	Primary Pump Unit Addl Hours	0	\$594.50	\$0.00	\$0.00
PCADD1	Standby Pump Unit Addl Hours	0	\$450.50	\$0.00	\$0.00
DERKC	Derrick Charge (Cement Head Stabbing Above 8 ft)	0	\$726.00	\$0.00	\$0.00
CDFDIAL	ATF Cement Defoamer (per gal)	0	\$29.50	\$0.00	\$0.00
FTRP7	7" Top Rubber Plug	0	\$140.00	\$0.00	\$0.00
CSUGAR	Sugar (per lb)	0	\$1.47	\$0.00	\$0.00
	Book Price			\$33,025.40	
	Estimated Total (Exclusive of Sales Tax)				\$13,870.67



December 6, 2023

Kansas Corporation Commission Oil & Gas Conservation Division 130 S. Market, Rm. 2078 Wichita, KS 67202

Re: BCE-Mach III LLC's – JMC 17-8-35-11 1H Section 17-35S-11W Barber County, Kansas

To whom it may concern:

BCE-Mach III LLC intends to drill the subject well to an approximate true vertical depth of between 4,800' and 4,900' in the Mississippian Formation. The producing wellbore will be in a production unit consisting of the E/2 of Sect. 17 & 8-35S-11 W, Barber County, Kansas, totaling 490.50 acres. The nearest lease or unit boundary will be no less than 330' from any portion of the effective completion interval. The estimated length of the effective completion interval will be 7,218'.

Should you have any questions, you may contact the undersigned at (405) 410-6082.

Respectively,

BCE-Mach III LLC

Lance Reid



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

Andrew J. French, Chairperson Dwight D. Keen, Commissioner Annie Kuether, Commissioner

December 06, 2023

Tami Laird BCE-Mach III LLC 14201 WIRELESS WAY SUITE 300 OKLAHOMA CITY, OK 73134-2521

Re: Drilling Pit Application JMC 17-8-35-11 1H SE/4 Sec.17-35S-11W Barber County, Kansas

Dear Tami Laird:

According to the drilling pit application referenced above, no earthen pits will be used at this location. Steel pits will be used. Please inform the Commission in writing as to which disposal well you utilized to dispose of the contents in the steel pits and the amount of fluid that was disposed. Please file form CDP-5 (August 2008), Exploration and Production Waste Transfer, within 30 days of fluid removal.

Should a haul-off pit be necessary please file form CDP-1 (April 2004), Application for Surface Pit, through KOLAR. This location will have to be inspected prior to approval of the haul-off pit application.

A copy of this letter should be posted in the doghouse along with the approved Intent to Drill. If you have any questions or concerns please feel free to contact the District Office at (620) 682-7933.



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

Laura Kelly, Governor

Andrew J. French, Chairperson Dwight D. Keen, Commissioner Annie Kuether, Commissioner

(a)



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

Laura Kelly, Governor

HAUL-OFF PIT APPLICATION FILING REQUIREMENTS

82-3-607. DISPOSAL OF DIKE AND PIT CONTENTS.

- Each operator shall perform one of the following when disposing of dike or pit contents:
- Remove the liquid contents to a disposal well or other oil and gas operation approved by the commission or to road maintenance or construction locations approved by the department;
- (2) dispose of reserve pit waste down the annular space of a well completed according to the alternate I requirements of K.A.R. 82-3-106, if the waste to be disposed of was generated during the drilling and completion of the well; or
- (3) dispose of the remaining solid contents in any manner required by the commission. The requirements may include any of the following:
 - (A) Burial in place, in accordance with the grading and restoration requirements in K.A.R. 82-3-602 (f);
 - (B) removal and placement of the contents in an on-site disposal area approved by the commission;
 - (C) removal and placement of the contents in an off-site disposal area on acreage owned by the same landowner or to another producing lease or unit operated by the same operator, if prior written permission from the landowner has been obtained; or
 - (D) removal of the contents to a permitted off-site disposal area approved by the department.
- (b) Each violation of this regulation shall be punishable by the following:
 - (1) A \$1,000 penalty for the first violation;
 - (2) a \$2,500 penalty for the second violation; and
 - (3) a \$5,000 penalty and an operator license review for the third violation.

<u>File Haul-Off Pit Application in KOLAR. Review the information below and attach all required</u> <u>documents to the pit application when submitting through KOLAR. This form will</u> automatically generate and fill in from questions asked in KOLAR.

Haul-off pit will be located in an on-site disposal area: ____Yes ____No

Haul-off pit is located in an off-site disposal area on acreage owned by the same landowner: ____Yes ____No If yes, written permission from the land owner must be obtained. Attach written permission to haul-off pit application.

Haul-off pit is located in an off-site disposal area on another **producing** lease or unit operated by the same operator: ____Yes ____No If yes, written permission from the land owner must be obtained. Attach permission and a copy of the lease assignment that covers the acreage where the haul-off pit is to be located, to the haul-off pit application.