

For KCC Use:

Effective Date: _____

District # _____

SGA? Yes No

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

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

Expected Spud Date: _____
month day year

OPERATOR: License# _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: _____

CONTRACTOR: License# _____

Name: _____

Well Drilled For:

Well Class:

Type Equipment:

- | | | | |
|---|-----------------------------------|------------------------------------|-------------------------------------|
| <input type="checkbox"/> Oil | <input type="checkbox"/> Enh Rec | <input type="checkbox"/> Infield | <input type="checkbox"/> Mud Rotary |
| <input type="checkbox"/> Gas | <input type="checkbox"/> Storage | <input type="checkbox"/> Pool Ext. | <input type="checkbox"/> Air Rotary |
| | <input type="checkbox"/> Disposal | <input type="checkbox"/> Wildcat | <input type="checkbox"/> Cable |
| <input type="checkbox"/> Seismic ; _____ # of Holes | <input type="checkbox"/> Other | | |
| <input type="checkbox"/> Other: _____ | | | |

If OWWO: old well information as follows:

Operator: _____

Well Name: _____

Original Completion Date: _____ Original Total Depth: _____

Directional, Deviated or Horizontal wellbore? Yes No

If Yes, true vertical depth: _____

Bottom Hole Location: _____

KCC DKT #: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ E W
(Q/Q/Q/Q) _____ feet from N / S Line of Section

_____ feet from E / W Line of Section

Is SECTION: Regular Irregular?

(Note: Locate well on the Section Plat on reverse side)

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Is this a Prorated / Spaced Field? Yes No

Target Formation(s): _____

Nearest Lease or unit boundary line (in footage): _____

Ground Surface Elevation: _____ feet MSL

Water well within one-quarter mile: Yes No

Public water supply well within one mile: Yes No

Depth to bottom of fresh water: _____

Depth to bottom of usable water: _____

Surface Pipe by Alternate: I II

Length of Surface Pipe Planned to be set: _____

Length of Conductor Pipe (if any): _____

Projected Total Depth: _____

Formation at Total Depth: _____

Water Source for Drilling Operations:

Well Farm Pond Other: _____

DWR Permit #: _____

(Note: Apply for Permit with DWR)

Will Cores be taken? Yes No

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.

Submitted Electronically

For KCC Use ONLY

API # 15 - _____

Conductor pipe required _____ feet

Minimum surface pipe required _____ feet per ALT. I II

Approved by: _____

This authorization expires: _____
(This authorization void if drilling not 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.

Well will not be drilled or Permit Expired Date: _____
Signature of Operator or Agent:

E
 W

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: _____

Lease: _____

Well Number: _____

Field: _____

Number of Acres attributable to well: _____

QTR/QTR/QTR/QTR of acreage: _____ - _____ - _____ - _____

Location of Well: County: _____

_____ feet from N / S Line of Section

_____ feet from E / W Line of Section

Sec. _____ Twp. _____ S. R. _____ E W

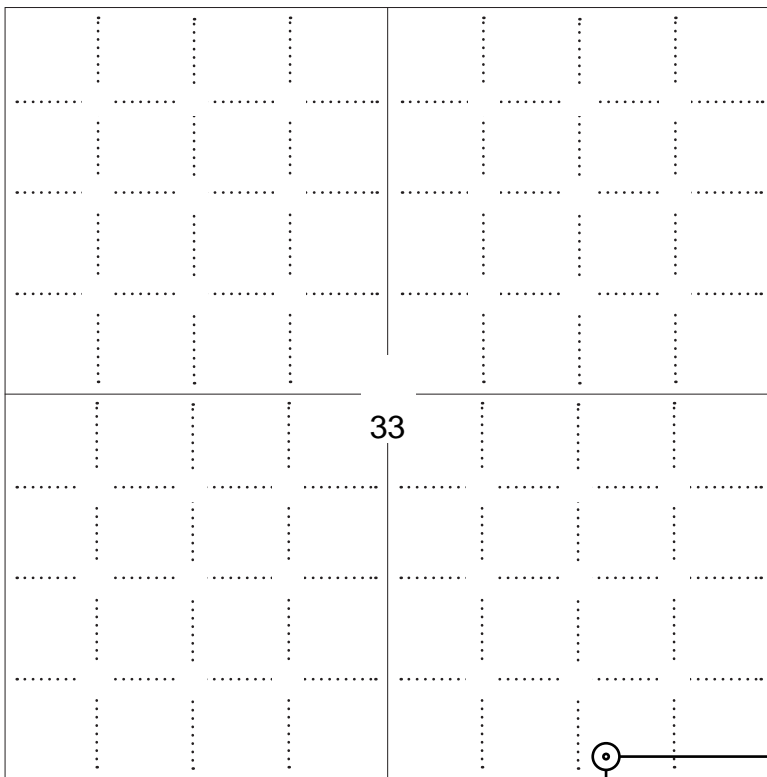
Is Section: Regular or Irregular

If Section is Irregular, locate well from nearest corner boundary.

Section corner used: NE NW SE SW

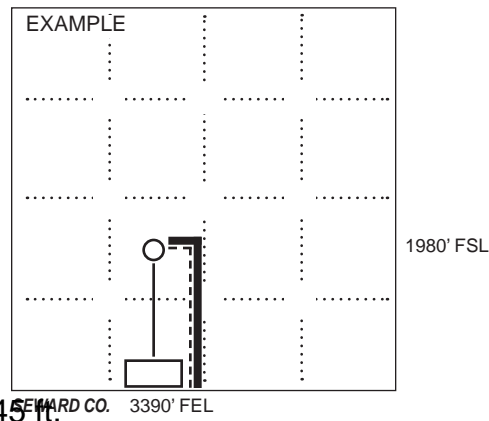
PLAT

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.



LEGEND

- Well Location
- Tank Battery Location
- Pipeline Location
- Electric Line Location
- Lease Road Location



NOTE: In all cases locate the spot of the proposed drilling location.

160 ft.

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.

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
APPLICATION FOR SURFACE PIT**

Form CDP-1
May 2010
Form must be Typed

Submit in Duplicate

Operator Name: _____		License Number: _____	
Operator Address: _____			
Contact Person: _____		Phone Number: _____	
Lease Name & Well No.: _____		Pit Location (QQQQ): _____ - _____ - _____ - _____	
Type of Pit: <input type="checkbox"/> Emergency Pit <input type="checkbox"/> Burn Pit <input type="checkbox"/> Settling Pit <input type="checkbox"/> Drilling Pit <input type="checkbox"/> Workover Pit <input type="checkbox"/> Haul-Off Pit <i>(If WP Supply API No. or Year Drilled)</i>		Pit is: <input type="checkbox"/> Proposed <input type="checkbox"/> Existing If Existing, date constructed: _____ Pit capacity: _____ (bbls)	
Is the pit located in a Sensitive Ground Water Area? <input type="checkbox"/> Yes <input type="checkbox"/> No		Chloride concentration: _____ mg/l <i>(For Emergency Pits and Settling Pits only)</i>	
Is the bottom below ground level? <input type="checkbox"/> Yes <input type="checkbox"/> No		Artificial Liner? <input type="checkbox"/> Yes <input type="checkbox"/> No	
How is the pit lined if a plastic liner is not used?			
Pit dimensions (all but working pits): _____ Length (feet) _____ Width (feet) <input type="checkbox"/> N/A: Steel Pits Depth from ground level to deepest point: _____ (feet) <input type="checkbox"/> No Pit			
If the pit is lined give a brief description of the liner material, thickness and installation procedure.		Describe procedures for periodic maintenance and determining liner integrity, including any special monitoring.	
Distance to nearest water well within one-mile of pit: _____ feet Depth of water well _____ feet		Depth to shallowest fresh water _____ feet. Source of information: <input type="checkbox"/> measured <input type="checkbox"/> well owner <input type="checkbox"/> electric log <input type="checkbox"/> KDWR	
Emergency, Settling and Burn Pits ONLY: Producing Formation: _____ Number of producing wells on lease: _____ Barrels of fluid produced daily: _____ Does the slope from the tank battery allow all spilled fluids to flow into the pit? <input type="checkbox"/> Yes <input type="checkbox"/> No		Drilling, Workover and Haul-Off Pits ONLY: Type of material utilized in drilling/workover: _____ Number of working pits to be utilized: _____ Abandonment procedure: _____ _____ Drill pits must be closed within 365 days of spud date.	
Submitted Electronically			

KCC OFFICE USE ONLY			
		<input type="checkbox"/> Liner <input type="checkbox"/> Steel Pit <input type="checkbox"/> RFAC <input type="checkbox"/> RFAS	
Date Received: _____	Permit Number: _____	Permit Date: _____	Lease Inspection: <input type="checkbox"/> Yes <input type="checkbox"/> No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form KSONA-1

July 2021

Form Must Be Typed

Form must be Signed

All blanks must be Filled

**CERTIFICATION OF COMPLIANCE WITH THE
KANSAS SURFACE OWNER NOTIFICATION ACT**

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____ Fax: (_____) _____

Email Address: _____

Well Location:

____ - ____ - ____ - ____ Sec. ____ Twp. ____ S. R. ____ East West

County: _____

Lease Name: _____ Well #: _____

If filing a Form T-1 for multiple wells on a lease, enter the legal description of the lease below:

Surface Owner Information:

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

When filing a Form T-1 involving multiple surface owners, attach an additional 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 county, and in the real estate property tax records of the county treasurer.

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.

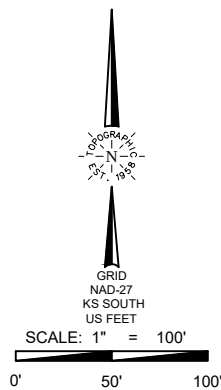
I Submitted Electronically

I

Exhibit "A"

SURFACE USE PLAT

SCHOOLEY - MOLZ SHKLAR PAD
 BCE-MACH III LLC
 SECTION 33, TOWNSHIP 34S, RANGE 11W, 6TH P.M.
 BARBER COUNTY, KANSAS



LEGEND

- SECTION LINE
- X- FENCE
- ||- PROPOSED PIPELINE
- == ROAD WAY
- ==== EDGE OF PAD



Stan W. Lloyd



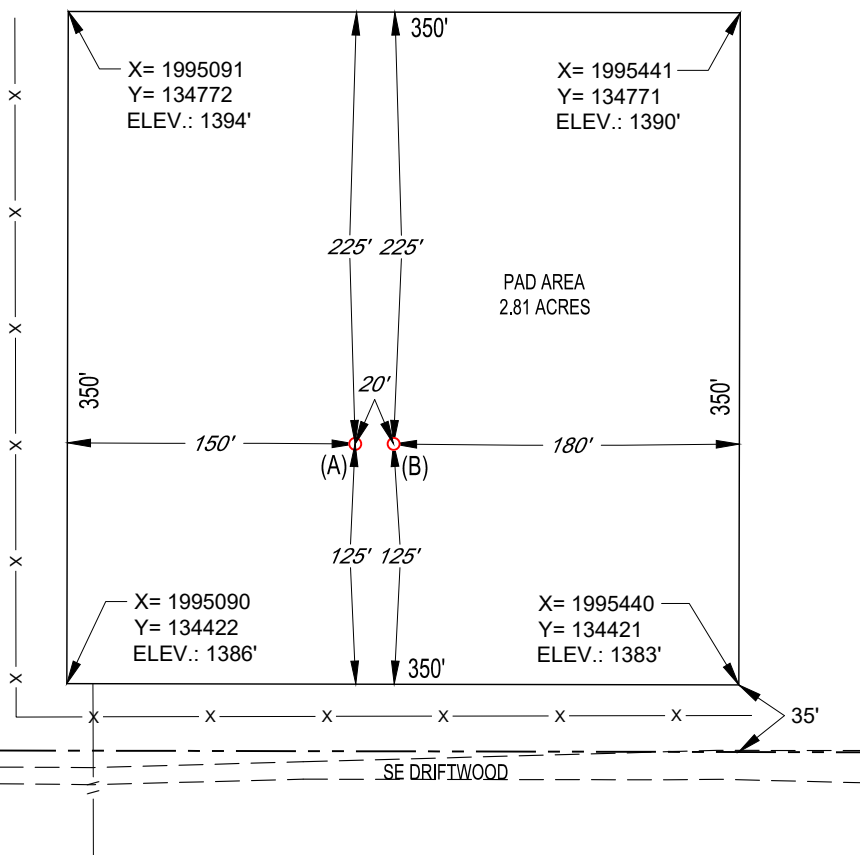
SECTION 33
SE/4

**(A) SCHOOLEY 4-35-11 2H
SURVEY LINE PERPENDICULARS:**

160' FSL & 1165' FEL
 ELEVATION: 1388' (NGVD29)
COORDINATES:
 NAD 27 KS SOUTH ZONE:
 X= 1995240 Y= 134547
 LAT.: 37°02'10.2" N LONG.: 98°30'58.7" W
 LAT.: 37.036176° N LONG.: 98.516306° W

**(B) MOLZ SHKLAR 33/28-34-11 1H
SURVEY LINE PERPENDICULARS:**

160' FSL & 1145' FEL
 ELEVATION: 1389' (NGVD29)
COORDINATES:
 NAD 27 KS SOUTH ZONE:
 X= 1995260 Y= 134547
 LAT.: 37°02'10.2" N LONG.: 98°30'58.5" W
 LAT.: 37.036176° N LONG.: 98.516238° W



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

SCHOOLEY - MOLZ SHKLAR PAD	REVISION:	
	INT	DATE
DATE: 01/03/2024		
FILE: BO_SCHOOLEY_MOLZ_SHKLAR_PAD		
DRAWN BY: KEU		
SHEET: 1 OF 1		

- NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 14" ALL BEARINGS SHOWN HEREON ARE GRID ACCORDING TO THE RESULTS OF STATIC GPS OBSERVATIONS PROCESSED THROUGH OPUS ON THE CONTROL POINT OCCUPIED WHILE MEASURING SAID LINES. OPUS RESULTS ARE CORRELATED TO KANSAS, SOUTH ZONE, NAD 27 - NATIONAL GEODETIC VERTICAL DATUM OF 1929.
 2. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT/LOCATION, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY BCE-MACH III LLC. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT/LOCATION, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.
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SCALE: 1" = 2000'
0' 1000' 2000'



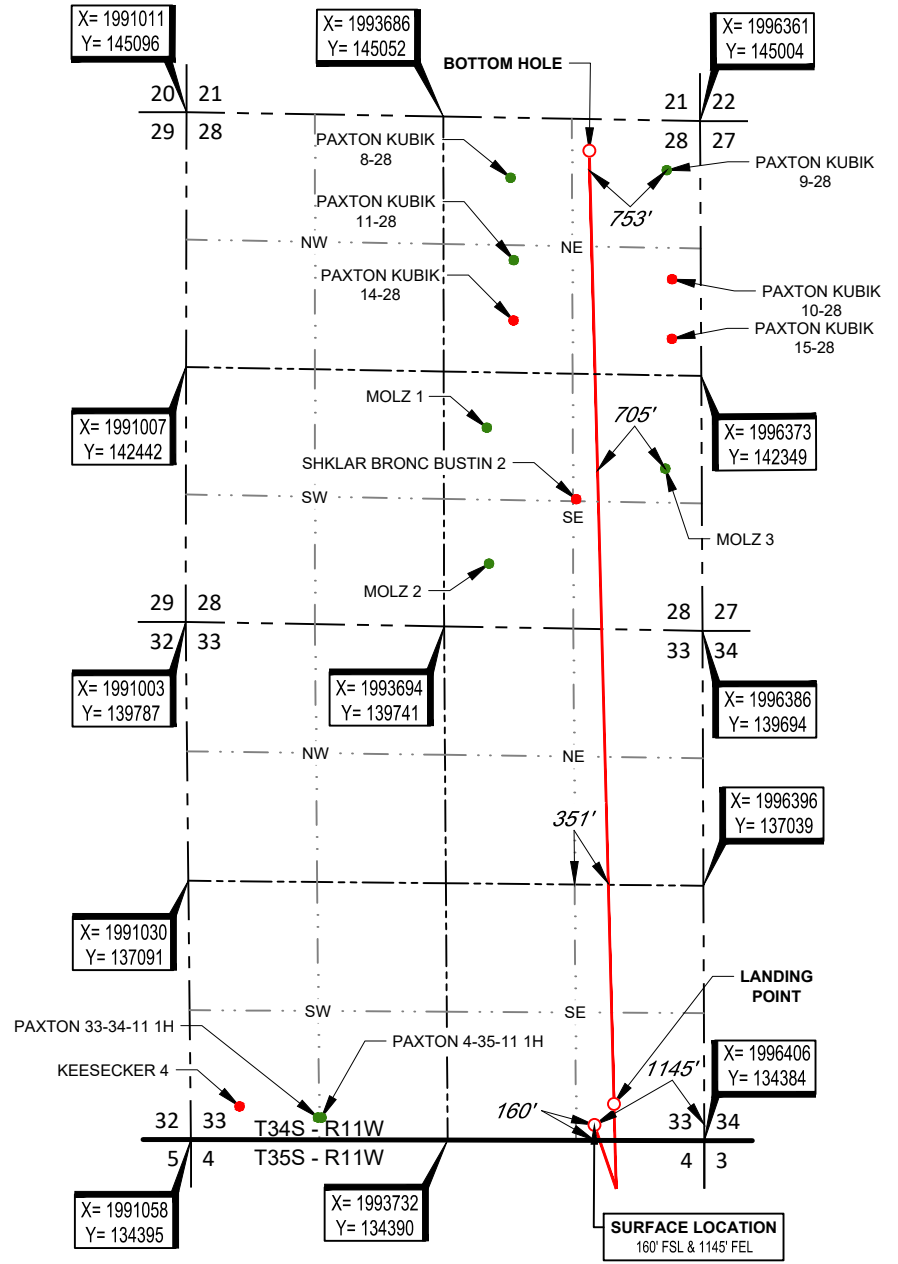
NOTE:
EXISTING WELLS ARE PLATTED PER RECORDS PROVIDED BY THE CLIENT, NOT SURVEYED IN THE FIELD.

WELL LOCATION

MOLZ SHKLAR 33/28-34-11 1H
BCE-MACH III LLC
SECTION 33, TOWNSHIP 34S, RANGE 11W, 6TH P.M.
BARBER COUNTY, KANSAS

LEGEND

- SECTION LINE
- TOWNSHIP LINE
- QUARTER SECTION LINE
- 16TH LINE
- PROPOSED WELL BORE
- PLUGGED WELL
- ACTIVE WELL



SURFACE LOCATION
160' FSL & 1145' FEL
NAD-27
X= 1995260
Y= 134547
LAT.: 37°02'10.2" N
LONG.: 98°30'58.5" W
LAT.: 37.036176° N
LONG.: 98.516238° W
ELEV.: 1389'

LANDING POINT
380' FSL & 940' FEL-SEC. 33
NAD-27
X= 1995464
Y= 134766
LAT.: 37°02'12.4" N
LONG.: 98°30'55.9" W
LAT.: 37.036779° N
LONG.: 98.515538° W

BOTTOM HOLE
330' FNL & 1155' FEL-SEC. 28
NAD-27
X= 1995207
Y= 144695
LAT.: 37°03'50.6" N
LONG.: 98°30'59.1" W
LAT.: 37.064047° N
LONG.: 98.516424° W



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

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



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WWW.TOPOGRAPHIC.COM

LEASE NAME & WELL NO. MOLZ SHKLAR 33/28-34-11 1H
SECTION 33 TWP 34S RGE 11W MERIDIAN 6TH P.M.
COUNTY BARBER STATE KANSAS
DESCRIPTION 160' FSL & 1145' FEL

MOLZ SHKLAR 33/28-34-11 1H	REVISION:	
	SAB	01/05/2024
DATE:	01/04/2024	
FILE:	LO_MOLZ_SHKLAR_33_28-34-11_1H_2MILE_REV1	
DRAWN BY:	KEU	
SHEET:	1 OF 2	

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SCALE: 1" = 2000'
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WELL LOCATION

MOLZ SHKLAR 33/28-34-11 1H

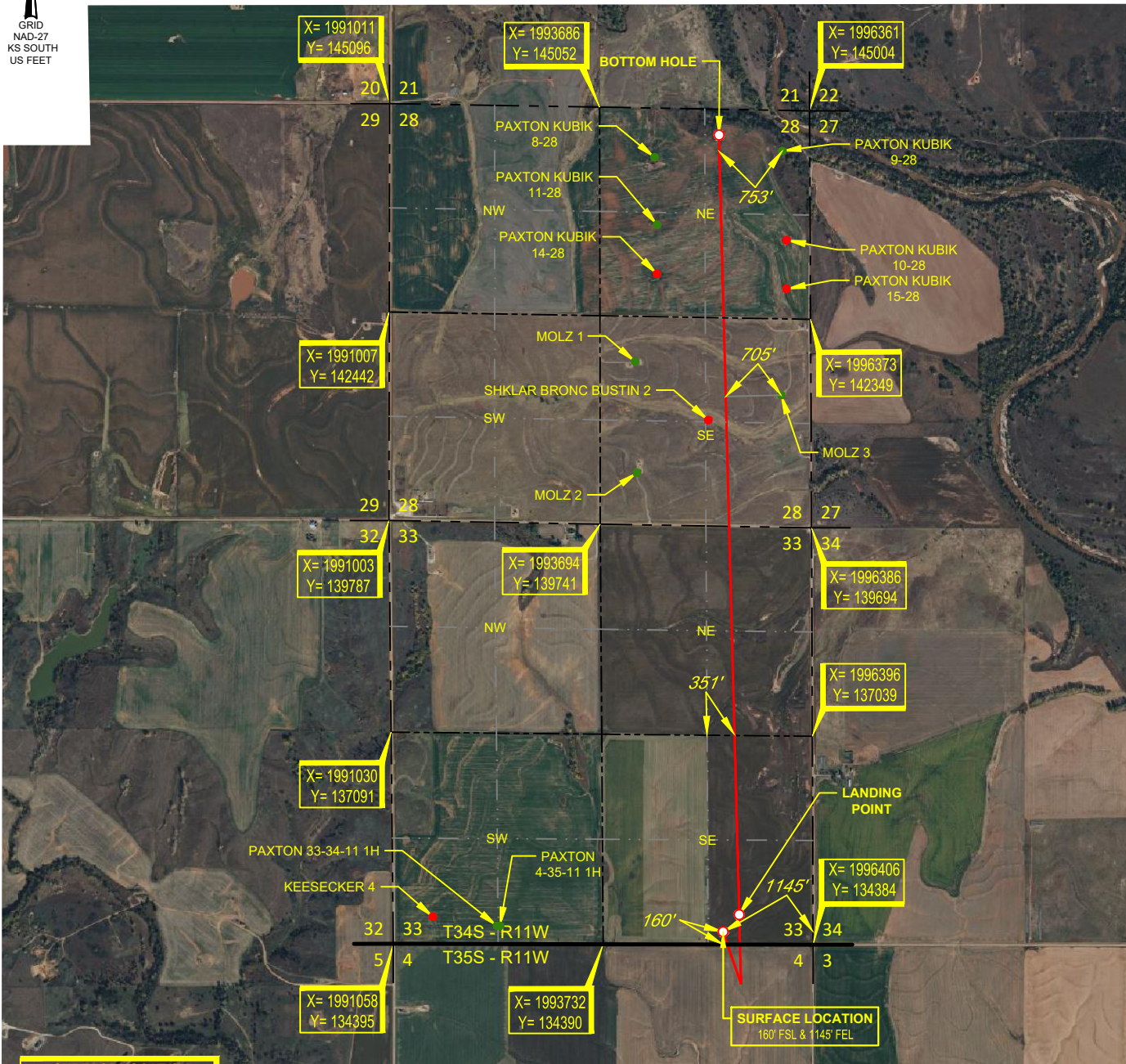
BCE-MACH III LLC

SECTION 33, TOWNSHIP 34S, RANGE 11W, 6TH P.M.
BARBER COUNTY, KANSAS

LEGEND

- SECTION LINE
- TOWNSHIP LINE
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GRID
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KS SOUTH
US FEET



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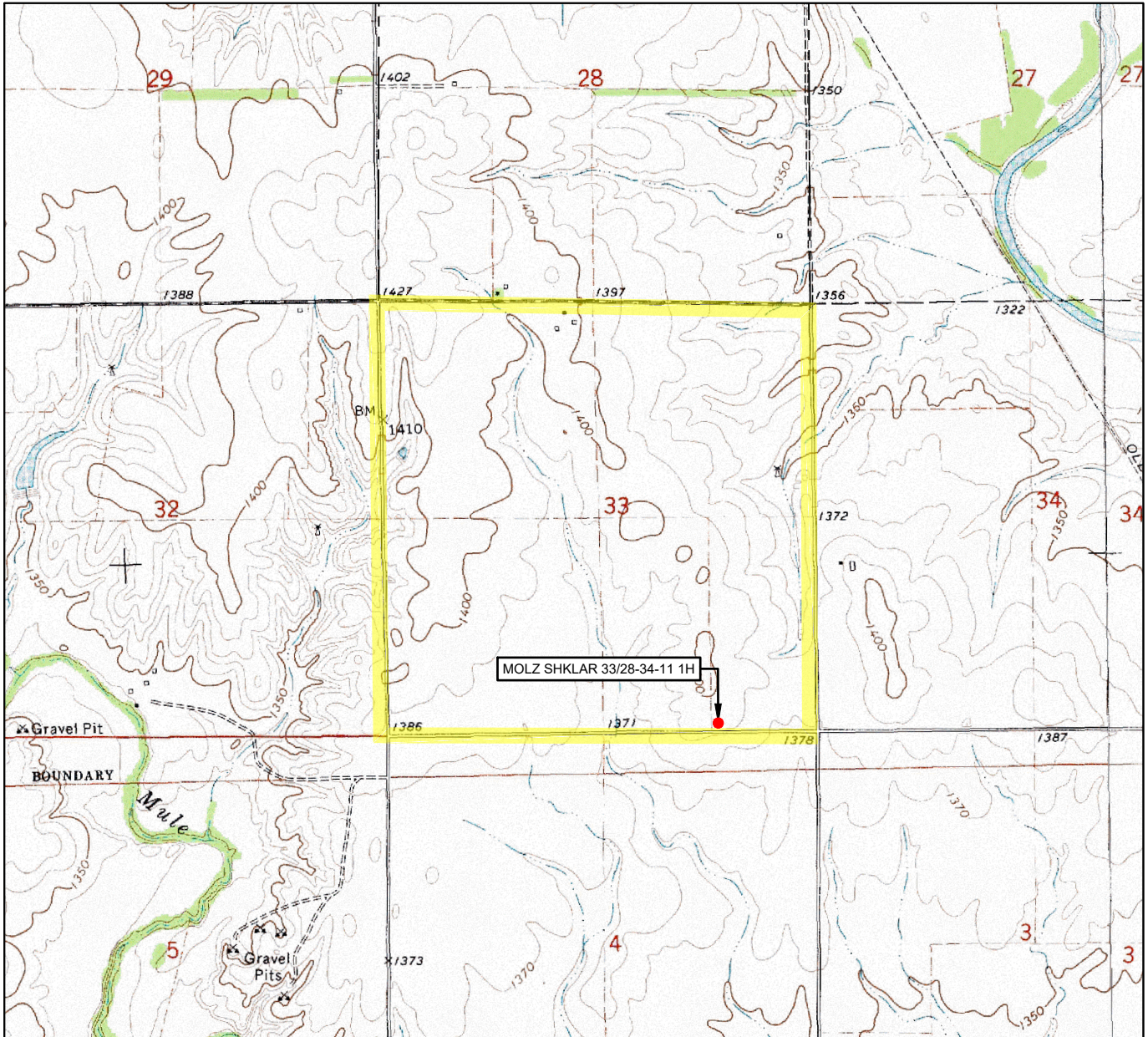
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LEASE NAME & WELL NO. MOLZ SHKLAR 33/28-34-11 1H
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DRAWN BY:	KEU	
SHEET:	2 OF 2	

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LOCATION & ELEVATION VERIFICATION MAP



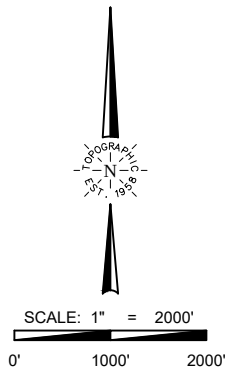
LEASE NAME & WELL NO. MOLZ SHKLAR 33/28-34-11 1H

SECTION 33 TWP 34S RGE 11W MERIDIAN 6TH P.M.

COUNTY BARBER STATE KANSAS

DESCRIPTION 160' FSL & 1145' FEL

ELEVATION 1389'



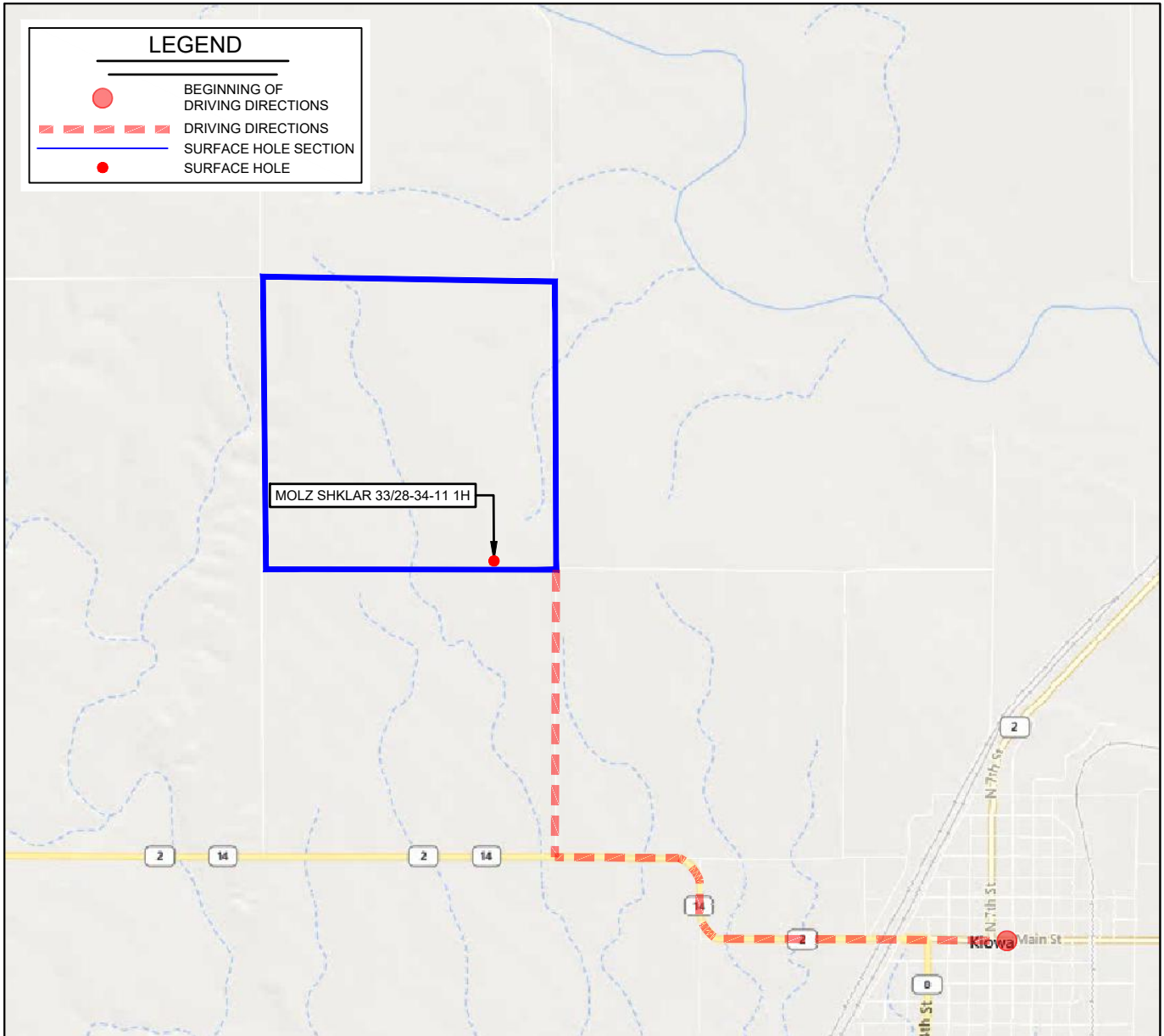
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY BCE-MACH III LLC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT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



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VICINITY MAP



LEASE NAME & WELL NO. MOLZ SHKLAR 33/28-34-11 1H

SECTION 33 TWP 34S RGE 11W MERIDIAN 6TH P.M.
 COUNTY BARBER STATE KANSAS

DESCRIPTION 160' FSL & 1145' FEL

DISTANCE & DIRECTION

FROM THE INTERSECTION OF N 7TH STREET AND KS-2/MAIN STREET,
IN KIOWA, KANSAS. HEAD WEST ON KS-2/MAIN STREET FOR 1.7
MILES, TURN NORTH ONTO RED DUST ROAD FOR ±1.0, ARRIVING AT
THE SOUTHEAST CORNER OF SECTION 33-34S-11W.

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.



SCALE: 1" = 3000'
 0' 1500' 3000'



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

MOLZ SHKLAR 33/28-34-11 1H

Original Well Elev



WELL DETAILS: MOLZ SHKLAR 33/28-34-11 1H

ELEVATION: 1389' GL + 16' KB @ 1405.00usft (Original Well Elev)					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	134547.00	1995260.00	37.03617715	-98.51623751

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
MOLZ 3 (710' RADIUS)		6832.64	735.50	141379.64	1995995.50
PAXTON KUBIK 9-28 (710' RADIUS)		9940.73	750.26	144487.73	1996010.26
MS 1H 7" CASING PT: 380' FSL & 1145' FEL	4000.00	220.10	-0.40	134767.10	1995259.60
MS 1H REV 7" CP: 380' FSL & 956.5' FEL	4000.00	219.80	188.10	134766.80	1995448.10
MS 1H PBHL - 2 MILE - 340' FNL & 1145' FEL	4716.84	10137.50	-42.60	144684.50	1995217.40
MS 1H PBHL - 1.5 MILE - 2333' FSL & 1145' FEL	4744.46	7500.20	-30.50	142047.20	1995229.50

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	Vsect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00
1399.73	20.00	150.70	1379.55	-150.63	84.53	2.00	-150.63
1527.31	20.00	150.70	1499.44	-188.69	105.88	0.00	-188.69
2527.36	0.00	360.00	2479.30	-339.37	190.44	2.00	-339.37
4232.40	0.00	360.00	4184.34	-339.37	190.44	0.00	-339.37
4832.40	60.00	359.76	4680.54	-52.89	189.24	10.00	-52.89
4982.40	60.00	359.76	4755.54	77.01	188.70	0.00	77.01
5134.62	81.31	359.76	4805.67	219.80	188.10	14.00	219.80
5320.42	90.60	359.76	4818.76	404.93	187.32	5.00	404.93
7415.62	90.60	359.76	4796.82	2500.00	178.55	0.00	2500.00
7748.93	90.60	349.76	4793.32	2831.48	148.15	3.00	2831.48
8503.93	90.60	349.76	4785.41	3574.42	13.94	0.00	3574.42
8837.24	90.60	359.76	4781.92	3905.89	-16.47	3.00	3905.89
15069.24	90.60	359.76	4716.84	10137.50	-42.60	0.00	10137.50

Project: BARBER CO. KANSAS (NAD27)
Site: SEC 33-T34S-R11W
Well: MOLZ SHKLAR 33/28-34-11 1H
Wellbore: ORIGINAL WELLPATH
Design: PRELIM PLAN 2 - 2 MILE
Rig: Original Well Elev
Depths: 1389' GL + 16' KB @ 1405.00usft (Original Well Elev)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Kansas South 1502
System Datum: Mean Sea Level

FORMATION TOP DETAILS

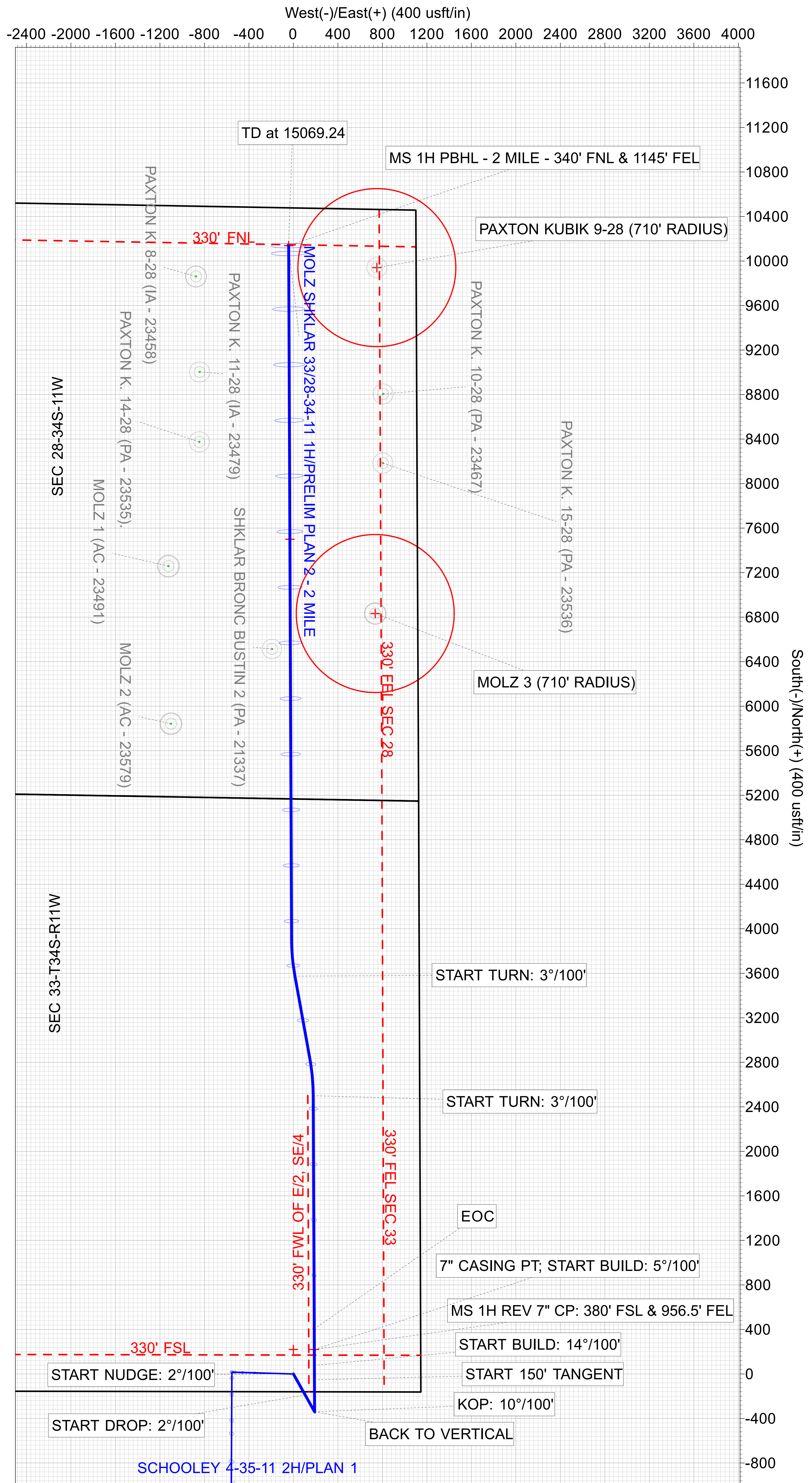
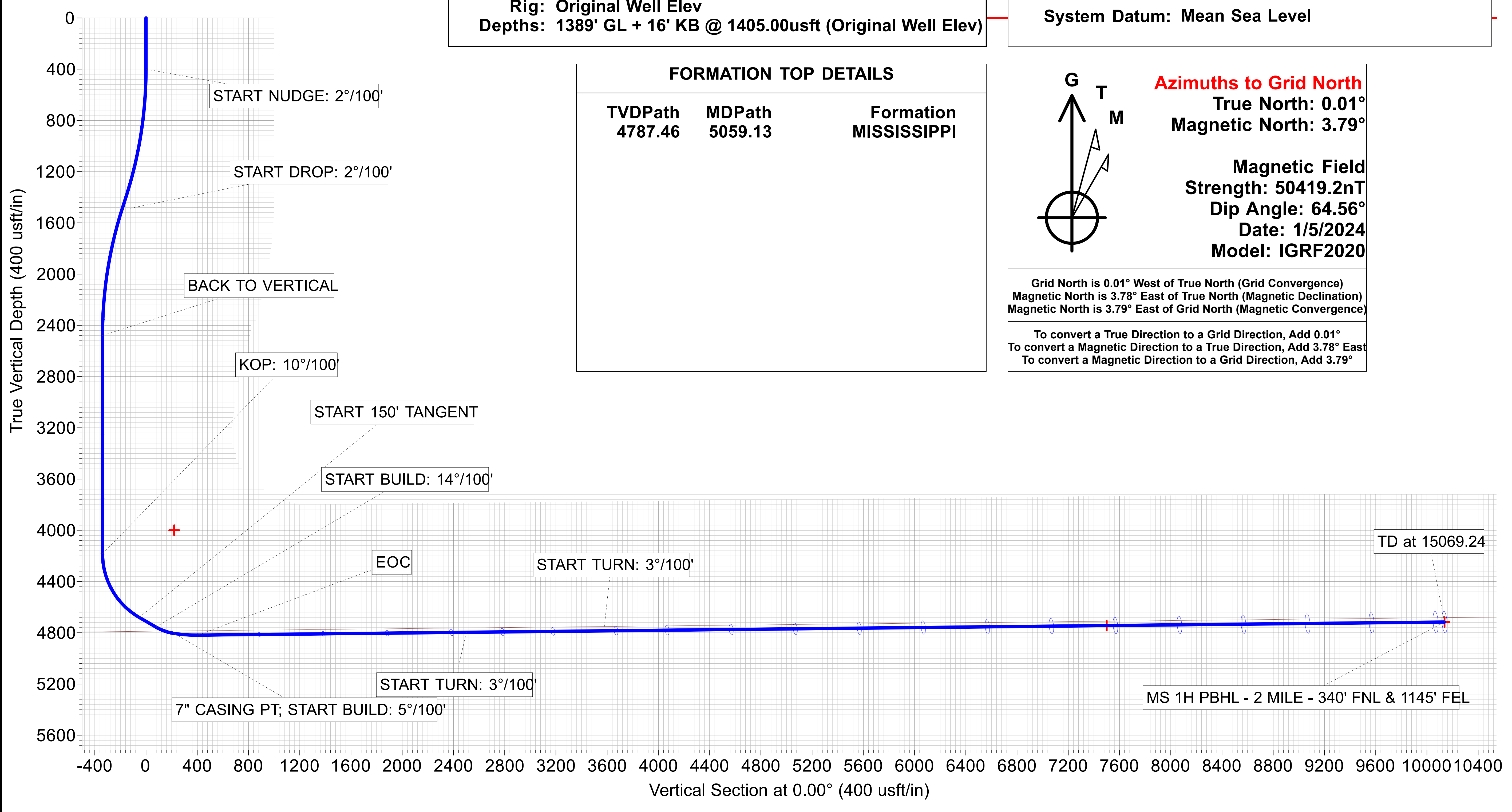
TVDPath	MDPath	Formation
4787.46	5059.13	MISSISSIPPI

Azimuths to Grid North
 True North: 0.01°
 Magnetic North: 3.79°

Magnetic Field
 Strength: 50419.2nT
 Dip Angle: 64.56°
 Date: 1/5/2024
 Model: IGRF2020

Grid North is 0.01° West of True North (Grid Convergence)
 Magnetic North is 3.78° East of True North (Magnetic Declination)
 Magnetic North is 3.79° East of Grid North (Magnetic Convergence)

To convert a True Direction to a Grid Direction, Add 0.01°
 To convert a Magnetic Direction to a True Direction, Add 3.78° East
 To convert a Magnetic Direction to a Grid Direction, Add 3.79°



Mach Resources Molz Shklar 33/28-34-11 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 Length (ft)	Total 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, use lots of soap to prevent bit balling (2-3 vis cups/connection)

- 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 225%
 Lead Cmt Volume **95** sacks

- Tail Slurry (200')

Weight 13.20 ppg
 Yield 1.86 cuft/sk
 Mix Water 9.98 gal/sk
 Excess 225%
 Open hole cmt volume 55 sacks
 Shoe track volume 10 sacks
 Tail Cmt Volume **65** sacks

Pump Schedule		
Fluid	Volume (bbls)	Rate (bpm)
Fresh Water Spacer	40.0	5
Lead Slurry	49.9	5
Tail Slurry	21.5	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 Length (ft)	Total 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	2633.2	4132.0

- 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

$$P = (FIT - MW)(.052 \cdot TVD)$$

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 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 Paxton 4-35-11 1H

Intermediate (8.75"): 300'- 5135' MD

Drill from 300' to 4132', 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 ~3000'. 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 Length (ft)	Total 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 3750')

Weight	10.20 ppg
Yield	5.50 cuft/sk
Mix Water	35.87 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	6.61 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	63.7	5
Tail Slurry	37.1	6
Plug	---	---
Fresh water	194.5	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 cements 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	Baker D406WHX (6x14'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	657.0	3184.0
12	4" HWDP	5.00	2.60	1395.0	4579.0
13	4" DP	4.00	2.56	2837.0	7416.0

- 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)

- NOV agitator will be run 2500' behind the bit (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

- Prior to MU BHA be sure to jet and clean pits. All mud lines need to be cleaned and flushed as well.

- Test MWD and MU bit. When testing pressure before and after PU agitator, pump 2x pipe capacity before killing pumps.

- TIH, tag fit 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"): 5135'- 15,069' MD

Drill lateral per dir plan from 5135'-15069' staying within target box (+/-10' TVD and +/-50' 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 established.

- Jet your pits and fill them with FW. Try to limit lube usage to 2 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 2 totes. Consider pumping SOAP if differential sticking is encountered (discuss w/ supt).

- Before any TOO 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 6 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 TOO 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 15069', 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 ~4982', which is 153' 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**

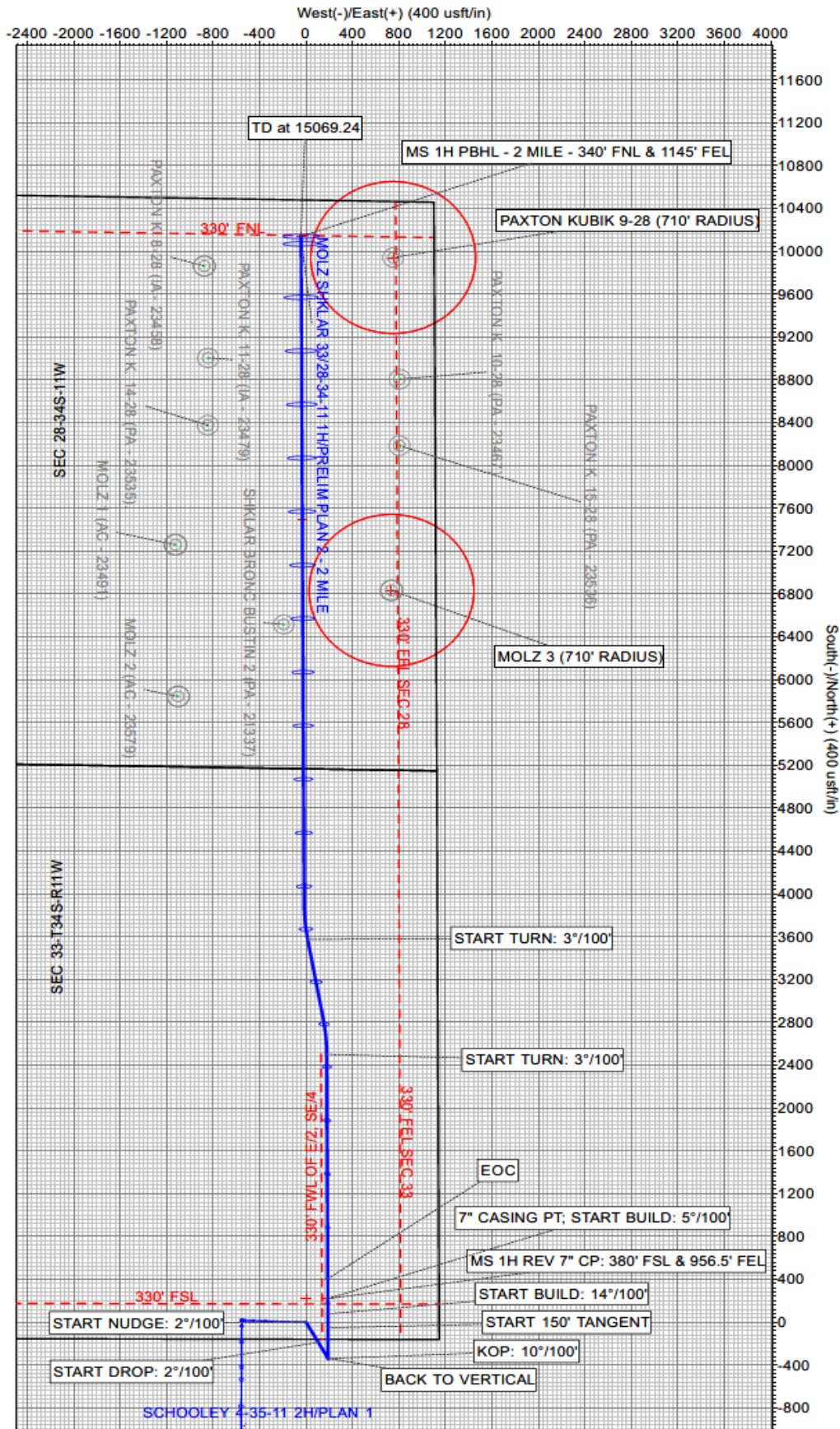
RU Csg Crew to run 4-1/2" 11.60# P110 BTC csg

- 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
- Hardlines: 330' FWL of E/2 SE/4 of SEC 33 (LH lateral side, 1st half mile after landing); 710' radius (NO CROSS) off offset wells 'Molz 3' and 'Paxton Kubik 9-28' (RH lateral side, near toe) 330' FNL (terminus); STOP LATERAL AT 340' FNL
- ICP shoe is planned at 380' FSL (50' across HL) @ 220' VS
- Confirm final TD with Drilling Engineer and well planner 1000' from planned TD



BCE-MACH III LLC
Molz Shklar 33/28-34-11 1H
API #:15-007-#####
Sec 33, T34S, R11W
Barber County, Kansas
Proposal #47310001
Service point El Reno, Oklahoma
1/8/2024
Rig - Atlas 3

Price Book Version 020422-1

Prepared for:

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BCE-MACH III LLC
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405-626-0911

Prepared by:

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Contact:

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Cementing Operations Coordinator
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(405) 808-5364

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

Spinner - 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.

Job Data

JOB TYPE	Surface
CASING SIZE	9.625 in., 36 lbs, J-55 LTC
HOLE SIZE	12.25 in.
TOTAL DEPTH	300 Feet
EXCESS	225%
FILL REQUIRED	300 Feet
BHST	83 Degrees
BHCT	80 Degrees

FLUID REQUIREMENTS

SPACER	40 bbls H2O
LEAD CEMENT SLURRY	95 Sacks Oilwell Standard Cement, 3% Gypsum, 1% SMS, 2.5% Calcium Chloride, 0.25 lbs Poly Flake
WEIGHT	11.4 ppq
YIELD	2.95 cu.ft./sk
WATER	18.16 gals/sk
TOC	Surface
BBLs of Slurry	49.92 bbls
TAIL CEMENT SLURRY	65 Sacks Oilwell Standard Cement, 3% Gypsum, 1% SMS, 2.5% Calcium Chloride, 0.25 lbs Poly Flake
WEIGHT	13.2 ppq
YIELD	1.86 cu.ft./sk
WATER	9.98 gals/sk
TOC	150 ft
BBLs of Slurry	21.54 bbls
DISPLACEMENT	20.11 bbls H2O

BCE-MACH III LLC
Molz Shklar 33/28-34-11 1H
Barber County, Kansas



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	\$529.20
MLHE2	Heavy Vehicle Mileage 2 units (roundtrip miles)	280	\$13.56	\$3,796.80	\$1,822.80
MLTN	Bulk Cement Delivery/Return (per Ton-Mile)	1,125	\$2.73	\$3,071.25	\$1,473.75
MXBK	Bulk Material Mixing Service Charge (Per cu.ft.)	160	\$3.03	\$484.80	\$232.00
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)	160	\$31.81	\$5,089.60	\$2,443.20
CEXTGYP	Gypsum (per lb)	452	\$0.54	\$244.08	\$117.52
CACCSMS	SMS (per lb)	151	\$3.86	\$582.86	\$279.35
CACCCC	Calcium Chloride (per lb)	376	\$1.45	\$545.20	\$263.20
CLCMPF	Poly Flake (per lb)	40	\$3.23	\$129.20	\$62.00
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
ADDDHOSE	Additional HOSES (above 120 ft/per ft)	0	\$3.55	\$0.00	\$0.00
	Book Price			\$25,407.34	
	Estimated Total (Exclusive of Sales Tax)				\$12,195.99

Job Data

JOB TYPE	Intermediate
CASING SIZE	7 in., 26 lbs, P-110 TCBC-HT
HOLE SIZE	8.75 in.
MUD	8.7-9.5 ppg WBM
TVD	4717 ft
MD	5135 ft
EXCESS	30%
BHST	132 Degrees
BHCT	105 Degrees

FLUID REQUIREMENTS

SPACER	40 bbls Fresh Water
LEAD CEMENT SLURRY	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
WEIGHT	10.2 ppg
YIELD	5.5 cu.ft./sk
WATER	35.87 gals/sk
TOC	3700 feet
BBLS OF SLURRY	63.68 bbls
TAIL CEMENT SLURRY	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
WEIGHT	13.8 ppg
YIELD	1.39 cu.ft./sk
WATER	6.61 gals/sk
TOC	4135 feet
BBLS OF SLURRY	37.14 bbls
DISPLACEMENT	194.76 bbls H2O

BCE-MACH III LLC
Molz Shklar 33/28-34-11 1H
Barber County, Kansas



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	\$462.00
MLHE2	Heavy Vehicle Mileage 2 units (roundtrip miles)	280	\$13.56	\$3,796.80	\$1,596.00
MLTN	Bulk Cement Delivery/Return (per Ton-Mile)	1,480	\$2.73	\$4,040.40	\$1,702.00
MXBK	Bulk Material Mixing Service Charge (Per cu.ft.)	215	\$3.03	\$651.45	\$273.05
CMTHD	Cement Head with manifold (per Job)	1	\$1,895.00	\$1,895.00	\$795.90
PC6K	Pump Charge 5001-6000' (Per 5 hrs)	1	\$4,325.75	\$4,325.75	\$1,816.82
DAQ	Data Acquisition System	1	\$1,331.00	\$1,331.00	\$559.02
FLSCG	Fuel Surcharge (per unit/per job)	2	\$605.00	\$1,210.00	\$508.20
ENVFEE	Environmental Fee	1	\$211.75	\$211.75	\$88.94
DAMSS	Data Monitoring System/Supervisor	1	\$800.00	\$800.00	\$336.00
CIRON	Circulation Equipment (40' of equipment per job)	2	\$1,512.50	\$3,025.00	\$1,270.50
CSTD	Class A Type Standard Cement (per sack)	118	\$31.81	\$3,753.58	\$1,576.48
CPOZF	POZ (per sack)	98	\$17.35	\$1,700.30	\$714.42
CEXTGEL	GEL (per lb)	1,100	\$0.63	\$693.00	\$286.00
CEXTGYB	Gypsum (per lb)	931	\$0.54	\$502.74	\$214.13
CEXTSFA	SFA (per lb)	679	\$1.21	\$821.59	\$346.29
CFL5	SFL-5 (per lb)	45	\$18.56	\$835.20	\$351.00
CFWCSA1	SA-2 (per lb)	85	\$19.52	\$1,659.20	\$697.00
CLCMPF	Poly Flake (per lb)	64	\$3.23	\$206.72	\$87.04
CLCMFBR	Fine Super Fiber (per lb)	24	\$19.28	\$462.72	\$194.40
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)				\$13,875.19



January 8, 2024

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

Re: BCE-Mach III LLC's – Molz Shklar 3328-34-11 1H
Section 33-34S-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 Section 28-35S-11 W and NE/4 and E/2 SE/4 of Sec 33-34S, Barber County, Kansas, containing 560 acres, more or less. 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 9934'.

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

Respectively,

BCE-Mach III LLC

A handwritten signature in black ink, appearing to read "Lance Reid", written over the typed name.

Lance Reid



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



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

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

Laura Kelly, Governor

January 10, 2024

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

Re: Drilling Pit Application
Molz Shklar 33-28-34-11 1H
SE/4 Sec.33-34S-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.

HAUL-OFF PIT APPLICATION FILING REQUIREMENTS

82-3-607.

DISPOSAL OF DIKE AND PIT CONTENTS.

- (a) Each operator shall perform one of the following when disposing of dike or pit contents:
- (1) 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.

File Haul-Off Pit Application in KOLAR. Review the information below and attach all required documents to the pit application when submitting through KOLAR. This form will 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.