

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

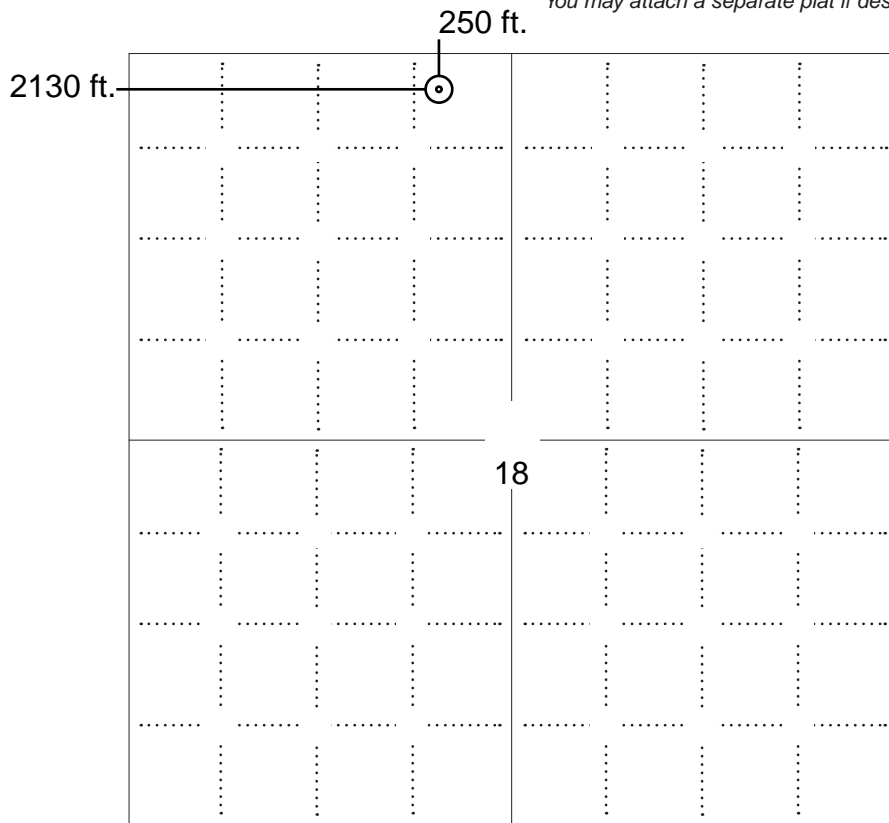
Is Section: Regular or Irregular

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 locaton.

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

McGinness Energy Co, Inc.
Wichita, KS

Scrooge 2H
Drilling Program

API Number: XX-XXX-XXXXX

Barber Co., KS

	Hole Location
S-T-R	18-35S-11W
SHL Footages	250 FNL, 2130 FWL
SHL Lat (NAD27)	37.00592851°
SHL Lon (NAD27)	-98.559966°
Elevation	1,375'
S-T-R	7-35S-11W
BHL Footages	330 FNL, 2640 FWL
BHL Lat (NAD27)	37.02036876°
BHL Lon (NAD27)	-98.55789982°

Driving Directions:

From the city of Kiowa, KS: Head west 4.7 miles on KS 2 S., GO southwest, left, 0.4 miles on US 281 S, GO south, left, 0.6 miles onto Stubbs Rd. and E into location.

General Information


Contacts

McGinness Energy Co.	Doug McGinness	316-250-8736
Geologist	Leah Kasten	316-259-6374
Tres Consultant- Days	Jason Groves	970-640-4373
Tres Consultant- Nights		
Drilling Engineer	Trent Scaggs	405-623-1606
Drilling Engineer	John Prejean	405-205-0771
Engineer Manager	Jason Goss	405-830-8365
KCC- District 1	District Office	620-682-7933
Emergencies		911
Barber County	Sheriff's Office	620-886-5678
City of Kiowa	Fire Department	620-825-4886

Vendor

Service	Supplier	Contact	Contact #	Contact Email
Rig Contractor	Duke Drilling	Jim Cruce	316-214-2803	jimcruce@yahoo.com
Directional Drilling	Radar Directional	Jeff Bull	405-651-8690	jeff@radardirectional.com
Geosteering	Paladin	Chris Babb	918-805-7363	cbabb@mcwvinc.com
Drill Bits	Taurex	Shelby Drake	405-435-4990	sdrake@taurexbits.com
Drill Bits	Reed	Jon Eve	580-816-0782	jon.eve@eve-bits.com
Casing/Pipe	Independent Tubular	Keith Prater	405-317-1549	keith@itcpipe.com
Liner	Halliburton	John Hales	405-664-1760	John.Hales@Halliburton.com
Cementing	Quasar	Cody Martin	940-727-1679	cody.martin@qeserve.com
Trucking				
Welder				
Mud	Fossil Fluids	Martin Kelley	580-515-5402	Mkelley@fossilfluids.com
Fuel	Flint	Nate Kirtley	405-699-1089	nate.kirtley@flint-ep.com
Float Equipment	NOV	Dave Pearson	405-650-6652	dave.pearson@nov.com
Surface Rentals/Housing	Oil Patch	Tony Richie	405-919-1967	trichie@oilpatchgroup.com
Casing Running Services	Casing Crew	Cody Darling	580-541-7289	casingcrews@hotmail.com
Wellhead	Canary	Mark Lauzon	405-435-9905	mlauzon@canaryusa.com
Disposal/Haul Off	Heartland Energy	Dusty Girton	580-254-1470	dgirton@heartlandenergyok.com
Water Transfer/ Poly Pipe	Polypipe Inc.	Brent Combs	580-254-0373	brentcombs5@yahoo.com
BOP- NU/ND	BOP Ram	Mike Barnard	405-664-0447	mikeatbopram@aol.com
Forklift/Manlift	Polypipe Inc.	Brent Combs	580-254-0373	brentcombs5@yahoo.com
Trash/Porta Potties	Polypipe Inc.	Brent Combs	580-254-0373	brentcombs5@yahoo.com

Duke - Rig #20

Well: Scrooge 2-7	Operating Company: McGinness Energy	
Prospect: Mississippian	Company Representative: Doug McGinness	
State: Kansas	Drilling Engineer: Jason Goss	
County: Barber	Completions: Jason Goss	
SHL: 2130' FWL & 250' FNL S-18 T-35S R-11W	Geologist: Leah Kasten	
Lat: 37.005928' Long: -98.559966°	KB: 15 Feet	
BHL: 2640' FWL & 330' FNL S-7 T-35S R-11W	GL: 1375 Feet	TDT-506-05-20.A
Lat: 37.020368' Long: -98.55789982°		

Casing String

		CSG Shoe					
		MD	TVD				
BTW		180	180				
Surface		1,000	1,000				

Well Head Info	
Well Head	9-5/8" SOW x 11" 5M
Casing Spool	N/A
Tubing Head	TBD

CSG String	Hole Size	Depth	Size	Grade	Weight	Conn	Length	TOC
Surface	12 1/4	1,000	9 5/8	J-55	36.0	STC	1,000	Surface
Intermediate	8 3/4	5,308	7	P-110	29.0	LTC	5,308	4,350
Production	6 1/8	9,845	4 1/2	P-110	13.5	BTC	4,874	5,130

KOP		4,198	4,198				
Liner Top		5,130	4,845				
Intermediate		5,308	4,874				
Landing Pt.		5,308	4,874				

Formation	TVD
Heebner Shale	3,839
Kansas City	4,385
Stark Shale	4,534
Base KC	4,614
Cherokee	4,759
Int Casing Point	5,350
Mississippian	4,838
Miss. Target	4,880

Production TD **9,845** **4,838** **Lateral Length** **4,537**

Mud Properties	
Surface	
Type	WBM
MW (ppg)	8.4 - 8.8
F Vis	27-31
PV	<4
YP	
Fluid Loss	N/C
LGS	<8

Mud Properties	
Intermediate	
Type	WBM
MW (ppg)	8.6 - 9.4
F Vis	40-55
PV	<16
YP	<15
Fluid Loss	N/C-4
LGS	<6

Mud Properties	
Production	
Type	Water
MW (ppg)	8.4-8.6
F Vis	26-29
PV	<4
YP	<4
Fluid Loss	NC
LGS	<4

I. Rig Move-In & Pre-Spud

- 1) Move in and rig up on the pad. Verify that the rig is rigging up on the proper well via well plats.
- 2) Preview drilling plan, scheduling and safety issues/policies of contractor, McGinness Energy Co. and Tres Management. All operations are to be conducted with safety as a priority. In the event of unsafe conditions, operations should be suspended until steps have been taken to ensure a safe working environment.
- 3) Make sure that the following Documents are posted prior to Well Spud.
 - a) A copy of the Drilling Permit and Well Plat must be on display prior to spud and through the entire drilling process.
 - b) A copy of the drilling contractor's spill prevention control and countermeasures should be posted in the dog house and company man's shack.
- 4) **Notify the KCC prior to spud. District office 620-682-7933, have API number ready for KCC representative. Document time and individual spoken to in report.**

II. Surface Hole Section

Overview: Safely drill 12 1/4" surface hole on fresh water/spud, run 9 5/8" casing and pump cement to surface.

- 1) Spud well and drill 12 1/4" hole to 1,000', fit hole depth to casing tally.
- 2) Pick up 12 1/4" BHA as follows:

BHA #1 Details			
Item	OD	Gauge	Jts
Drill Pipe	4"		To surface
Collar	6 1/4"		21
X/O	4 1/2"		1
Slick NMDC	8"		2
NM UBHO Sub	8"		1
Slick Pony NMDC	8"		1
7:8/4 1.83 Motor	8 1/4"		1
Surface Bit	12 1/4"		1

12.25" Production Hole Mud Overview

WBM

Interval	WEIGHT (ppg)	Vis	PV	Fluid Loss	%LGS
0' – 1,000'	8.4 – 8.7	27-31	<4	NC	<8%

- 3) The objective during this interval is to vertically drill a 12 1/4" vertical wellbore to the anticipated surface casing depth of ±1,000' MD/TVD using fresh water and high viscosity sweeps. By retaining the sweeps in the system, a Low-Solids, Non-Dispersed fluid with properties approximating those outlined above should be attainable prior to casing depth.
- 4) Formation losses can pose problems in this area of Barber County, especially while drilling the unconsolidated formations encountered in the surface interval. If encountered, Cottonseed Hull sweeps (±10 – 12 lb/bbl) have proven effective in mitigating losses.
- 5) High Viscosity Sweeps: Pull approximately 100 bbls of fresh water into the pre-mix and add 15 – 20 (100 lb) sacks of Bentonite. Slowly add 1 sack of Lime to obtain the desired ±120 sec/qt funnel viscosity. Pump approximately ±30 – 40 bbls of this high viscosity sweep every ±90 – 120', or as dictated by wellbore conditions.
- 6) Bit Balling: Bit balling due to hydrophilic clays may occur while drilling the surface interval. If encountered, agglomerations of these clays could result in packing-off, forcing fluid into upper-hole formations due to reductions in annular diameters. Scouring sweeps composed of Walnut Shells and Liquid PHPA have proven effective in alleviating these issues. The use of Soap Sticks dropped down the drill pipe on connections will aid in proactively alleviating bit-balling tendencies.
- 7) Be alert for the Red Bed formation from under conductor. The fluid will begin to turn red and flocculation will occur. It may become necessary to thin the fluid back with freshwater. Keeping a low pH <8, adding a drilling surfactant and using SAPP will all help to reduce the swelling/reactivity of the red beds during surface interval.
- 8) Take surveys via MWD through interval and at TD.
- 9) Run recommended 12 ¼" drilling parameters per directional/company man recommendations.
- 10) Notify KCC **24 hours** before running casing. 620-682-7933
- 11) At TD, circulate a minimum of 2 bottoms up. Make a wiper trip to 8" NMDC's then TOOH for casing and LD 8" tools.
- 12) Rig up casing crews and run the surface casing as follows.
 - Guide float shoe - thread locked
 - 1 joint of casing
 - PDC drillable float collar

- 13) Run 9 5/8" 36# J-55 LTC with bow-spring centralizer on bottom 3 joints and every other joint, to surface. Make up to optimum torque.

Casing Make-Up Torque (ft-lbs)				
Casing	Conn	Min	Optimum	Max
9 5/8" 36# J-55	LTC	3400	4530	5660

- 14) Run casing to bottom and verify tagging bottom.
- 15) Circulate one and a half times casing capacity and make sure mud is conditioned prior to rigging up cementers.
- 16) Rig up cementers and prepare to pump cement per cement proposal – 100% Excess over gauged hole. Evaluate hole conditions for cement volumes. Verify final volumes w/ cementers.
- 17) Hold safety meeting, test lines, and cement surface casing as per cement proposal. Displace with FW and utilize a non-rotating top wiper plug.
- 18) Bump the plug with 500 psi over final circulating pressure and verify that the floats are holding. Note displacing pressure prior to bumping the plug. Note returns while displacing and volume of cement returned to surface.
- 19) Notify KCC District office immediately if any loss of circulation or failure to circulate cement to surface.
- 20) R/D cementers and WOC 8 hours.
- 21) Weld on 9 5/8" SOW x 11" 3M SOW.
- 22) NU 11" 5K BOP stack w/ spool and Test high and low, record results of test in report and keep copy of chart in dog house.
- 23) Install wear bushing and prepare to pick up 8 3/4" drill out assembly.

III. Intermediate/Vertical Hole Section

Overview: Drill intermediate/vertical hole w/ 8 3/4" PDC bit and 6 3/4" 7:8/6.0 1.83 FBH motor to +/- 4,198' KOP.

- 1) Pick up 8 3/4" vertical BHA #2 as follows:

BHA #2 Details			
Item	OD	Gauge	Jts
Drill Pipe	4"		To surface
Collar	6 1/4"		21
X/O	6 3/4"		1
Slick NMDC	6 3/4"		2
NM UBHO Sub	6 3/4"		1
Slick Pony NMDC	6 3/4"		1
7:8/6 1.83 Motor	6 3/4"		1
Vertical Bit	8 3/4"		1

8.75" Intermediate/Vertical Hole Mud Overview Dispersed WBM

Interval	WEIGHT (ppg)	Vis	PV	YP	Fluid Loss	pH	%LGS
1,000' – 4,198'	8.7 – 9.3	40-55	2-16	2-15	NC- 4.0	8-10.5	<6%

- 2) TIH w/ BHA #2, condition hole and drill 8 3/4" vertical hole to total depth of +/- 4,198 KOP'.
- 3) Trip in the hole to top of float collar. **Tag float collar and pick up to test casing to 1500 PSI for 30 mins.**
- 4) After testing the casing, proceed to drill the float collar, cement shoe track, and float shoe. Drill with low rpm (10-30 RPM) and low flow rates (300 – 350 GPM).
- 5) **Note the depth of float collar and shoe in morning report.**
- 6) Drill 8 3/4" vertical hole to TD, taking surveys via MWD tool.
- 7) Run recommended 8 3/4" drilling parameters per directional and company man.
- 8) Drill an 8 3/4" vertical wellbore out from under the 9 5/8" surface casing string with water and high viscosity sweeps to approximately 3,000' MD. At this point, begin displacing the active system to a low-solids, dispersed fluid to concurrently lower the active system's chloride levels and density. Prior to reaching the projected KOP at ±4,200' MD, the API Fluid Loss should be reduced to within the recommended ±5.0 – 6.0 ml/30 mins range utilizing tourly PAC LV and Lignite additions.
- 9) Hole cleaning throughout the direction portion of this interval is of

paramount importance. Particular attention should be paid to elevating and maintaining the mud systems low end fluid rheologies (further discussed in hole cleaning portion of this program).

- 10) Hole Cleaning: Many of the drilling problems in this interval (tight hole, intermittent bridges on trips, washing/reaming), may be attributed to inadequate hole cleaning. Continue to utilize viscous sweeps (built along the same guidelines outlined above) throughout the upper portion of the 8 3/4" interval.
- 11) Discontinue high viscosity sweeps after displacing the active system at ±3,000' MD. The drilling fluid's rheological properties, coupled with sufficient volumetric flow rates and drillstring rotation, will competently remove cuttings from the annulus without contributing to formation erosion.
- 12) If any trip is made for new bit/BHA, pump at maximum flow rate for a minimum of 2 bottoms up.
- 13) Once TD is reached, circulate high vis sweeps around and pump at maximum flow rate until the hole is clean. Minimum of 2 bottoms up. TOOH to PU 8 3/4" curve assembly. Make a wiper trip if hole conditions dictate.

IV. Intermediate/Curve Hole Section

Overview: Drill intermediate/curve hole w/ 8 3/4" PDC bit and 6 3/4" 7:8/6.0 2.38 FBH motor to +/- 5,308'MD/4,874' TVD~ +/- 40' into Mississippi- 90°. Run 7" casing and cement string w/ 1,000' of lift. TOC @ +/- 4,300' MD.

- 1) Pick up 8 3/4" curve BHA #3 as follows:

BHA #3 Details			
Item	OD	Gauge	Jts
Drill Pipe	4"		To surface
Collar	6 1/4"		21
X/O	6 3/4"		1
Drill Pipe	4"		42
X/O	6 3/4"		1
Flex NMDC	6 3/4"		1
Slick NMDC	6 3/4"		1
NM UBHO Sub	6 3/4"		1
Slick Pony NMDC	6 3/4"		1
7:8/6 2.38 Motor	6 3/4"		1
Curve Bit	8 3/4"		1

8.75" Intermediate/Curve Hole Mud Overview Dispersed WBM

Interval	WEIGHT (ppg)	Vis	PV	YP	Fluid Loss	pH	%LGS
4,198' – 5,308'	8.7 – 9.3	40-55	2-16	2-15	NC- 4.0	8-10.5	<6%

- 2) TIH w/ BHA #3, condition hole and drill 8 3/4" curve section to total depth of +/- 5,308' MD/4,874' TVD, +/- 90.45°.

- 3) Drill 8 3/4" curve section to TD, taking surveys via MWD tool every 30'. Start building angle at 10°/100' until 60°, hold tangent from 4,798' MD to 5,003'. Continue building angle at 10°/100' until TD is reached at +/- 5,308'~ 40' TVD into Mississippi. Make sure we are into Miss before calling TD and adequate room for liner overlap.

- 4) Run recommended 8 3/4" drilling parameters per directional and company man.

- 5) Directional Wellbores: Once the wellbore inclination exceeds ± 30°, rheological attributes such as Yield Point (YP) and Funnel Viscosity become insufficient indicators of cuttings removal efficiency. The primary factors involved in enhanced cuttings transport in deviated wellbores include annular flowrate, drillstring rotation, and low-shear fluid rheologies.

- 6) Drillstring Rotation plays key role in removing cuttings from the low side of the eccentric annulus in directional wellbores. Although pipe movement does not clean the hole, the resultant "viscous coupling" effect it imparts on the drilling fluid is responsible for disturbing cuttings' beds and forcing them to enter the annular flow regime. A minimum of 120 RPM (as downhole tools permit) is necessary to adequately clean an inclined wellbore; a definitive, dramatic change in hole cleaning efficiency is noticed when rotating at the recommended 120 RPMs (compared to 100 RPMs).

- 7) Low-Shear Fluid Rheologies play a vital role in preventing complications associated with solids' accumulation in the low side of the annulus. Throughout the build section, maintain the 6-RPM reading at 0.8 – 1.0 times the wellbore diameter (– 10 RPM).

- 8) If any trip is made for new bit/BHA, pump at maximum flow rate for a minimum of 2 bottoms up. Monitor shakers and circulate as hole dictates.

- 9) Once TD is reached, circulate high vis sweeps around and pump at maximum flow rate until the hole is clean. Minimum of 3 bottoms up or as hole conditions dictate. Monitor shakers for abnormal cuttings discharge throughout this

process. Condition mud for wiper trip.

- 10) Make a wiper trip to KOP then TOO H for casing and LD curve BHA.
- 11) Verify cement volumes with Cementer for final hole depth/fluid caliper.
- 12) Rig up casing crew and run the intermediate casing as follows:
 - Float shoe
 - (1) joint of casing
 - Float collar
 - Casing to surface

Casing Make-Up Torque (ft-lbs)				
Casing	Conn	Min	Optimum	Max
7" 29# P-110	LTC	5,980	7,970	9,960

- 13) Solid body centralizers will be run on the first three joints and every third joint to +/- 4,200'.
- 14) Run casing to bottom and circulate a minimum of 1-1/2 times the casing capacity.
- 15) Hold safety meeting, test lines, and cement intermediate casing as per attached cement proposal. Pump calculated displacement. If plug does not bump pump 1/2 the shoe track volume stop, shutdown and test floats. Verify cement to surface.
- 16) Bump the plug with 500 psi over final circulating pressure and verify that the floats are holding. Note displacing pressure prior to bumping the plug. Document lift pressure in report.
- 17) If floats are not holding pump the volume back into the casing and shut in. Keep shut in for a minimum of 8 hours.
- 18) Rig down cementers, Nipple down and pick up stack.
- 19) Set slips, cut off, Nipple Up and Test 5K BOP and BOPE. Test must be performed against test plug, do not pressurize casing.

V. Production/Lateral Hole Section

Overview: Drill production/lateral hole w/ 6 1/8" PDC bit and 5" 7:8/8.3 1.83 FBH motor to +/- 9,845"MD/4,838' TVD~ in the Mississippi- 90.45°. Run 4 1/2" casing liner and cement string. Set top of liner @ +/- 5,133' MD~ 72°.

- 1) Pick up 6 1/8" lateral BHA #4 as follows:

BHA #4 Details			
Item	OD	Gauge	Jts
Drill Pipe	4"		To surface
X/O	5"		1
Slick NMDC	5"		2
NM UBHO Sub	5"		1
7:8/8.3 1.83 Motor	5"		1
Lateral Bit	6 1/8"		1

6.125" Production/Lateral Hole Mud Overview Fresh Water/Sweeps

Interval	WEIGHT (ppg)	Vis	PV	YP	Fluid Loss	%LGS
5,308' – 9,845'	8.4 – 8.6	26-29	1-4	1-4	NC	<4%

- 2) TIH w/ BHA #4, condition hole and drill 6 1/8" lateral section to total depth of +/- 9,845' MD/4,838' TVD, +/- 90.45°.
- 3) Trip in the hole to top of float collar. **Tag float collar and pick up to test casing to 1500 PSI for 30 mins.**
- 4) After testing the casing, proceed to drill the float collar, cement shoe track, and float shoe. Drill with low rpm (30-60 RPM).
- 5) **Note the depth of float collar and shoe in morning report.**
- 6) Drill 6 1/8" lateral section to TD, taking surveys via MWD tool. Keep at 90.45°. Continue drilling in Mississippi, making changes according to geosteering/geologist recommendations.
- 7) Run recommended 6 1/8" drilling parameters per directional and company man.
- 8) After setting the 7" casing string through the curve, jet and clean the active pits to remove solids accruals. Drill the 6 1/8" production interval with fresh water and viscous Xanthan Gum sweeps. Monitor torque and drag readings to determine the frequency of these viscous sweeps, to minimize costs while enhancing annular solids removal. Additions of liquid (PEXO Lube) or solid lubricants during extended sliding operations has proven useful in reducing torque in the concluding portion of lateral wellbores.
- 9) High Viscosity Sweeps: Viscous Xanthan Gum sweeps should be utilized as needed

to enhance hole cleaning throughout the eccentric portions of the curve and lateral sections. Pump $\pm 10 - 15$ bbl sweeps composed of the following: Treat soluble Ca^{2+} with Soda Ash to a value < 120 mg/l. Next, add 1 – 2 sacks of Xanthan Gum to obtain the desired $\pm 75 - 90$ sec/qt funnel viscosity.

- 10) Seepage/Partial fluid losses can pose problems in Barber County while drilling the lateral interval. To alleviate fluid losses, we recommend pumping LCM sweeps consisting of a combination of Cedar Fiber and Calcium Carbonate as formation losses mandate. Modify the LCM concentrations and sweep volumes as wellbore conditions and formation losses dictate.
- 11) If any trip is made for new bit/BHA, pump at maximum flow rate for a minimum of 2 bottoms up. Monitor shakers and circulate as hole dictates.
- 12) Once TD is reached, circulate high vis sweeps around and pump at maximum flow rate until the hole is clean. Minimum of 3 bottoms up or as hole conditions dictate. Monitor shakers for abnormal cuttings discharge throughout this process. Condition mud for wiper trip.
- 13) Make a wiper trip to 7" casing shoe.
- 14) After wiper trip, TIH to TD and condition hole for liner/casing. Circulate high vis sweeps around and pump at maximum flow rate until the hole is clean. Minimum of 3 bottoms up or as hole conditions dictate. Monitor shakers for abnormal cuttings discharge throughout this process and implement fibrous, high viscosity sweeps as needed.
- 15) Drop rabbit provided by Halliburton liner, before TOOH, to ensure liner ball will pass through pipe.
- 16) Record PU and Slack-off values for Liner top +/- 5,133' w/ 175' of Liner overlap in 7" casing.
- 17) Ensure Halliburton has verified all OD's, ID's and lengths of their liner hangar assembly. In addition to company man verification.
- 18) Calculate planned pressures and displacements.
- 19) RU casing crew and run the liner as follows per Halliburton procedures.
 - a. 4 1/2" toe sleeve and shoe joint assembly
 - b. PU +/- 4,715' of 4 1/2" 13.5# P-110 BTC liner
 - c. Halliburton hanger
- 20) TIH per Halliburton procedures and circulate a minimum of 1.5 times drill pipe and

casing capacity.

- 21) Set liner hanger per Halliburton recommendations.
- 22) RU cementers and prepare to cement.
- 23) Hold safety meeting, test lines, and cement liner as per attached cement proposal. Pump calculated displacement. If plug does not bump, pump 1/2 the shoe track volume stop, shutdown and test floats.
- 24) Bump the plug with 500 psi over final circulating pressure and verify that the floats are holding. Note displacing pressure prior to bumping the plug. Document lift pressure in report. **Verify pressures w/ Halliburton liner hand and do NOT exceed recommended rating for setting liner packer.****
- 25) Set liner packer and release running tool per Halliburton procedures.
- 26) Circulate to clean up liner top.
- 27) RD and Release cementers.
- 28) TOOH. LDDP, LD tools and release liner technician.
- 29) Secure WH, clean pits and release rig.

Scrooge #2H

Additional information and declarations

- 1) The well is a horizontal well drilled in the Mississippi formation.
- 2) Operator will comply with all statewide setback rules.
- 3) Operator certifies that a blow out preventer will be utilized.
- 4) Operator certifies that a direction survey and all other requested information will be provided with the ACO-1 Well Completion form.
- 5) Lease description: All of Section 7-35S-11W, Barber County, KS
- 6) Plat map attached.
- 7) Direction survey map attached.

McGinness Energy Company

Well: Scrooge 2H
 Site: Section 18-T35S-R11W
 Project: Barber County, Kansas NAD27 Ks S
 Wellbore: Original Hole
 Design: rev8
 Rig:

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4198.56	0.00	0.00	4198.56	0.00	0.00	0.00	0.00	0.00	KOP Begin 10°/100' build
3	4798.56	60.00	6.58	4694.76	284.59	32.83	10.00	6.58	286.48	Begin 60.00° tangent
4	5003.56	60.00	6.58	4797.26	460.96	53.17	0.00	0.00	464.01	Begin 10°/100' build
5	5308.11	90.45	6.58	4874.00	750.06	86.53	10.00	0.01	755.04	Begin 90.45° lateral
6	9845.29	90.45	6.58	4838.00	5257.19	606.66	0.00	0.00	5292.08	PBHL

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
Scrooge 2H BHL 330 FNL 2640 FWL	4838.00	5257.19	606.66	128795.80	1983094.50

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
 Depth Reference: RKB=1375+15 @ 1390.00ft

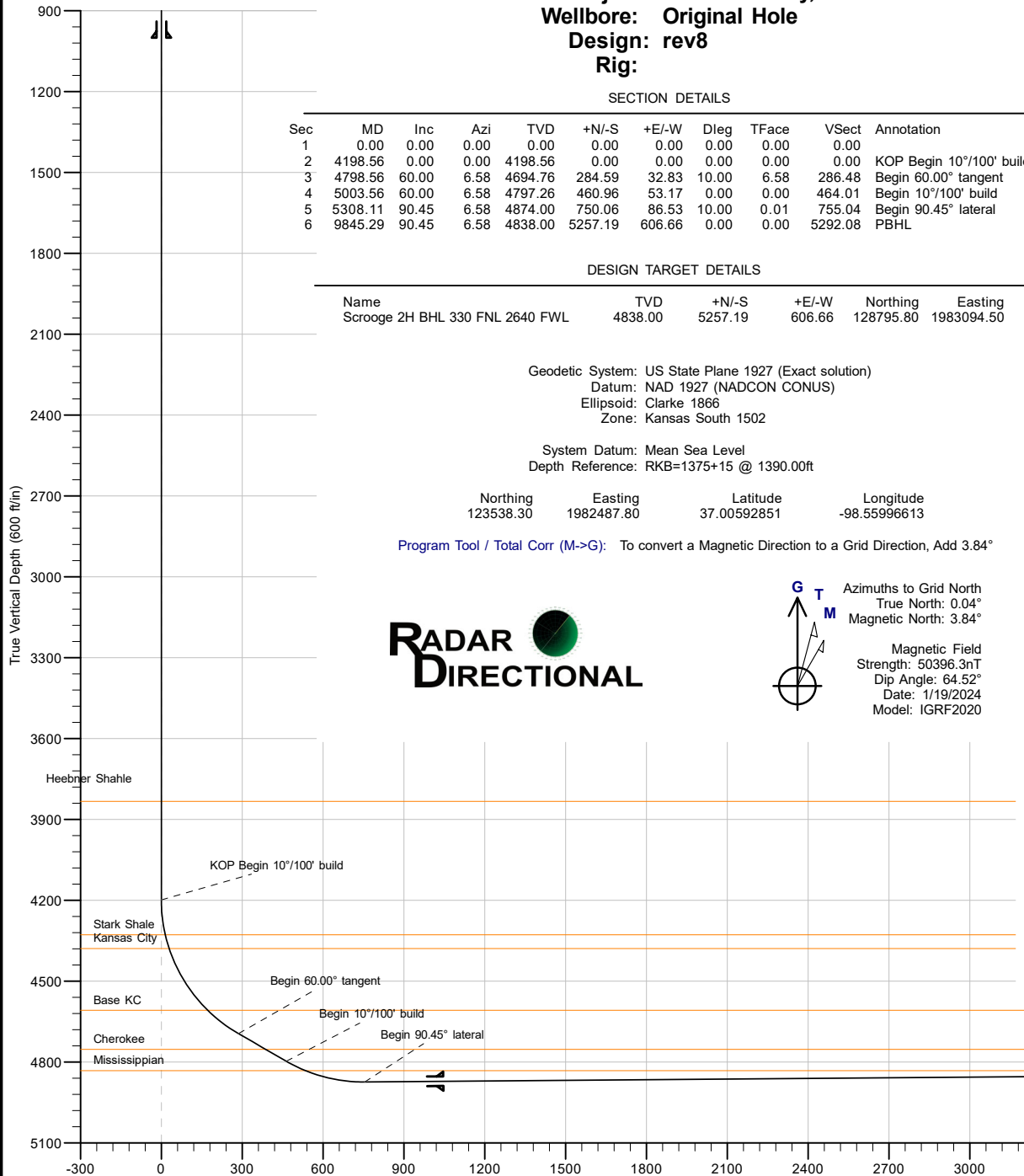
Northing	Easting	Latitude	Longitude
123538.30	1982487.80	37.00592851	-98.55996613

Program Tool / Total Corr (M->G): To convert a Magnetic Direction to a Grid Direction, Add 3.84°

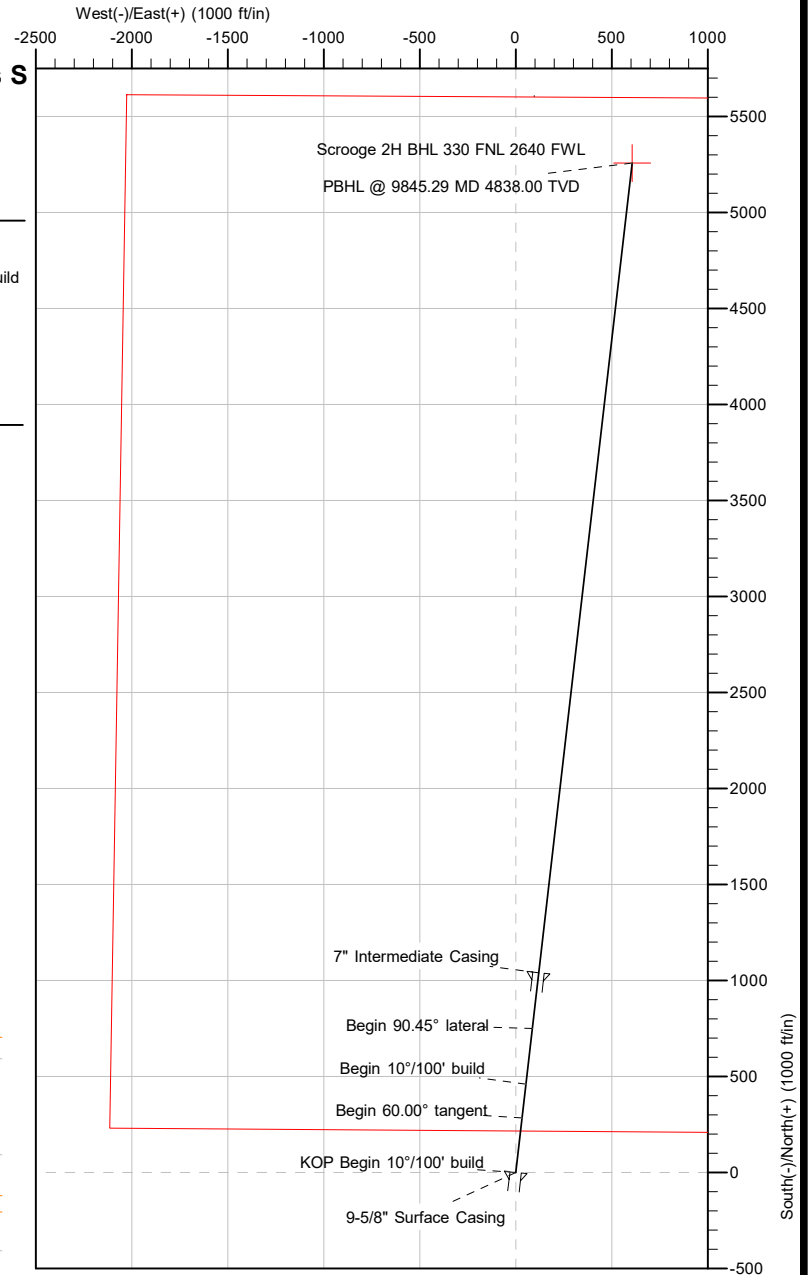


Azimuths to Grid North
 True North: 0.04°
 Magnetic North: 3.84°

Magnetic Field
 Strength: 50396.3nT
 Dip Angle: 64.52°
 Date: 1/19/2024
 Model: IGRF2020



Vertical Section at 6.58° (600 ft/in)



PBHL @ 9845.29 MD 4838.00 TVD
 Scrooge 2H BHL 330 FNL 2640 FWL

Planning Report

Database:	DT_Jan1924v17	Local Co-ordinate Reference:	Well Scrooge 2H
Company:	McGinness Energy Company	TVD Reference:	RKB=1375+15 @ 1390.00ft
Project:	Barber County, Kansas NAD27 Ks S	MD Reference:	RKB=1375+15 @ 1390.00ft
Site:	Section 18-T35S-R11W	North Reference:	Grid
Well:	Scrooge 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev8		

Project Barber County, Kansas NAD27 Ks S			
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Kansas South 1502		Using geodetic scale factor

Site Section 18-T35S-R11W			
Site Position:		Northing:	123,646.90 usft
From:	Map	Easting:	1,982,502.20 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	37.00622680
		Longitude:	-98.55991706

Well Scrooge 2H, Surf loc: 250 FNL 2130 FWL Section 18						
Well Position	+N/-S	0.00 ft	Northing:	123,538.30 usft	Latitude:	37.00592851
	+E/-W	0.00 ft	Easting:	1,982,487.80 usft	Longitude:	-98.55996613
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	1,375.00 ft
Grid Convergence:		-0.04 °				

Wellbore Original Hole					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	1/19/2024	3.80	64.52	50,396.27492139

Design rev8				
Audit Notes:				
Version:		Phase:	PLAN	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	6.58

Plan Survey Tool Program		Date 1/24/2024		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	9,845.29 rev8 (Original Hole)	MWD	OWSG MWD - Standard

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,198.56	0.00	0.00	4,198.56	0.00	0.00	0.00	0.00	0.00	0.00	
4,798.56	60.00	6.58	4,694.76	284.59	32.83	10.00	10.00	0.00	6.58	
5,003.56	60.00	6.58	4,797.26	460.96	53.17	0.00	0.00	0.00	0.00	
5,308.11	90.45	6.58	4,874.00	750.06	86.53	10.00	10.00	0.00	0.01	
9,845.29	90.45	6.58	4,838.00	5,257.19	606.66	0.00	0.00	0.00	0.00	Scrooge 2H BHL 330

Planning Report

Database:	DT_Jan1924v17	Local Co-ordinate Reference:	Well Scrooge 2H
Company:	McGinness Energy Company	TVD Reference:	RKB=1375+15 @ 1390.00ft
Project:	Barber County, Kansas NAD27 Ks S	MD Reference:	RKB=1375+15 @ 1390.00ft
Site:	Section 18-T35S-R11W	North Reference:	Grid
Well:	Scrooge 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev8		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	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	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
9-5/8" Surface Casing									
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,833.00	0.00	0.00	3,833.00	0.00	0.00	0.00	0.00	0.00	0.00
Heebner Shahle									
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,198.56	0.00	0.00	4,198.56	0.00	0.00	0.00	0.00	0.00	0.00
KOP Begin 10°/100' build									
4,200.00	0.14	6.58	4,200.00	0.00	0.00	0.00	10.00	10.00	0.00
4,250.00	5.14	6.58	4,249.93	2.29	0.26	2.31	10.00	10.00	0.00
4,300.00	10.14	6.58	4,299.47	8.90	1.03	8.96	10.00	10.00	0.00
4,329.13	13.06	6.58	4,328.00	14.72	1.70	14.81	10.00	10.00	0.00
Stark Shale									
4,350.00	15.14	6.58	4,348.24	19.77	2.28	19.90	10.00	10.00	0.00
4,382.12	18.36	6.58	4,379.00	28.96	3.34	29.15	10.00	10.00	0.00

Planning Report

Database:	DT_Jan1924v17	Local Co-ordinate Reference:	Well Scrooge 2H
Company:	McGinness Energy Company	TVD Reference:	RKB=1375+15 @ 1390.00ft
Project:	Barber County, Kansas NAD27 Ks S	MD Reference:	RKB=1375+15 @ 1390.00ft
Site:	Section 18-T35S-R11W	North Reference:	Grid
Well:	Scrooge 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev8		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Kansas City									
4,400.00	20.14	6.58	4,395.88	34.82	4.02	35.05	10.00	10.00	0.00
4,450.00	25.14	6.58	4,442.01	53.93	6.22	54.29	10.00	10.00	0.00
4,500.00	30.14	6.58	4,486.29	76.97	8.88	77.48	10.00	10.00	0.00
4,550.00	35.14	6.58	4,528.37	103.76	11.97	104.45	10.00	10.00	0.00
4,600.00	40.14	6.58	4,567.95	134.08	15.47	134.97	10.00	10.00	0.00
4,650.00	45.14	6.58	4,604.72	167.72	19.35	168.83	10.00	10.00	0.00
4,654.67	45.61	6.58	4,608.00	171.03	19.73	172.16	10.00	10.00	0.00
Base KC									
4,700.00	50.14	6.58	4,638.40	204.42	23.58	205.77	10.00	10.00	0.00
4,750.00	55.14	6.58	4,668.72	243.89	28.13	245.50	10.00	10.00	0.00
4,798.56	60.00	6.58	4,694.76	284.59	32.83	286.48	10.00	10.00	0.00
Begin 60.00° tangent									
4,800.00	60.00	6.58	4,695.48	285.83	32.97	287.73	0.00	0.00	0.00
4,900.00	60.00	6.58	4,745.48	371.86	42.89	374.33	0.00	0.00	0.00
4,915.05	60.00	6.58	4,753.00	384.81	44.39	387.36	0.00	0.00	0.00
Cherokee									
5,003.56	60.00	6.58	4,797.26	460.96	53.17	464.01	0.00	0.00	0.00
Begin 10°/100' build									
5,050.00	64.64	6.58	4,818.82	501.80	57.88	505.13	10.00	10.00	0.00
5,082.77	67.92	6.58	4,832.00	531.60	61.32	535.13	10.00	10.00	0.00
Mississippian									
5,100.00	69.64	6.58	4,838.24	547.56	63.16	551.19	10.00	10.00	0.00
5,150.00	74.64	6.58	4,853.56	594.82	68.61	598.76	10.00	10.00	0.00
5,200.00	79.64	6.58	4,864.68	643.23	74.20	647.50	10.00	10.00	0.00
5,250.00	84.64	6.58	4,871.52	692.42	79.88	697.01	10.00	10.00	0.00
5,300.00	89.64	6.58	4,874.01	742.01	85.60	746.93	10.00	10.00	0.00
5,308.11	90.45	6.58	4,874.00	750.06	86.53	755.04	10.00	10.00	0.00
Begin 90.45° lateral									
5,400.00	90.45	6.58	4,873.27	841.35	97.06	846.93	0.00	0.00	0.00
5,500.00	90.45	6.58	4,872.48	940.69	108.53	946.93	0.00	0.00	0.00
5,600.00	90.45	6.58	4,871.68	1,040.02	119.99	1,046.92	0.00	0.00	0.00
7" Intermediate Casing									
5,700.00	90.45	6.58	4,870.89	1,139.36	131.45	1,146.92	0.00	0.00	0.00
5,800.00	90.45	6.58	4,870.10	1,238.70	142.92	1,246.92	0.00	0.00	0.00
5,900.00	90.45	6.58	4,869.30	1,338.04	154.38	1,346.91	0.00	0.00	0.00
6,000.00	90.45	6.58	4,868.51	1,437.38	165.85	1,446.91	0.00	0.00	0.00
6,100.00	90.45	6.58	4,867.72	1,536.71	177.31	1,546.91	0.00	0.00	0.00
6,200.00	90.45	6.58	4,866.92	1,636.05	188.77	1,646.90	0.00	0.00	0.00
6,300.00	90.45	6.58	4,866.13	1,735.39	200.24	1,746.90	0.00	0.00	0.00
6,400.00	90.45	6.58	4,865.34	1,834.73	211.70	1,846.90	0.00	0.00	0.00
6,500.00	90.45	6.58	4,864.54	1,934.06	223.17	1,946.90	0.00	0.00	0.00
6,600.00	90.45	6.58	4,863.75	2,033.40	234.63	2,046.89	0.00	0.00	0.00
6,700.00	90.45	6.58	4,862.96	2,132.74	246.09	2,146.89	0.00	0.00	0.00
6,800.00	90.45	6.58	4,862.16	2,232.08	257.56	2,246.89	0.00	0.00	0.00
6,900.00	90.45	6.58	4,861.37	2,331.41	269.02	2,346.88	0.00	0.00	0.00
7,000.00	90.45	6.58	4,860.58	2,430.75	280.48	2,446.88	0.00	0.00	0.00
7,100.00	90.45	6.58	4,859.78	2,530.09	291.95	2,546.88	0.00	0.00	0.00
7,200.00	90.45	6.58	4,858.99	2,629.43	303.41	2,646.87	0.00	0.00	0.00
7,300.00	90.45	6.58	4,858.20	2,728.76	314.88	2,746.87	0.00	0.00	0.00
7,400.00	90.45	6.58	4,857.40	2,828.10	326.34	2,846.87	0.00	0.00	0.00
7,500.00	90.45	6.58	4,856.61	2,927.44	337.80	2,946.86	0.00	0.00	0.00
7,600.00	90.45	6.58	4,855.82	3,026.78	349.27	3,046.86	0.00	0.00	0.00

Planning Report

Database:	DT_Jan1924v17	Local Co-ordinate Reference:	Well Scrooge 2H
Company:	McGinness Energy Company	TVD Reference:	RKB=1375+15 @ 1390.00ft
Project:	Barber County, Kansas NAD27 Ks S	MD Reference:	RKB=1375+15 @ 1390.00ft
Site:	Section 18-T35S-R11W	North Reference:	Grid
Well:	Scrooge 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev8		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
7,700.00	90.45	6.58	4,855.02	3,126.11	360.73	3,146.86	0.00	0.00	0.00
7,800.00	90.45	6.58	4,854.23	3,225.45	372.20	3,246.85	0.00	0.00	0.00
7,900.00	90.45	6.58	4,853.43	3,324.79	383.66	3,346.85	0.00	0.00	0.00
8,000.00	90.45	6.58	4,852.64	3,424.13	395.12	3,446.85	0.00	0.00	0.00
8,100.00	90.45	6.58	4,851.85	3,523.46	406.59	3,546.85	0.00	0.00	0.00
8,200.00	90.45	6.58	4,851.05	3,622.80	418.05	3,646.84	0.00	0.00	0.00
8,300.00	90.45	6.58	4,850.26	3,722.14	429.51	3,746.84	0.00	0.00	0.00
8,400.00	90.45	6.58	4,849.47	3,821.48	440.98	3,846.84	0.00	0.00	0.00
8,500.00	90.45	6.58	4,848.67	3,920.81	452.44	3,946.83	0.00	0.00	0.00
8,600.00	90.45	6.58	4,847.88	4,020.15	463.91	4,046.83	0.00	0.00	0.00
8,700.00	90.45	6.58	4,847.09	4,119.49	475.37	4,146.83	0.00	0.00	0.00
8,800.00	90.45	6.58	4,846.29	4,218.83	486.83	4,246.82	0.00	0.00	0.00
8,900.00	90.45	6.58	4,845.50	4,318.16	498.30	4,346.82	0.00	0.00	0.00
9,000.00	90.45	6.58	4,844.71	4,417.50	509.76	4,446.82	0.00	0.00	0.00
9,100.00	90.45	6.58	4,843.91	4,516.84	521.23	4,546.81	0.00	0.00	0.00
9,200.00	90.45	6.58	4,843.12	4,616.18	532.69	4,646.81	0.00	0.00	0.00
9,300.00	90.45	6.58	4,842.33	4,715.51	544.15	4,746.81	0.00	0.00	0.00
9,400.00	90.45	6.58	4,841.53	4,814.85	555.62	4,846.80	0.00	0.00	0.00
9,500.00	90.45	6.58	4,840.74	4,914.19	567.08	4,946.80	0.00	0.00	0.00
9,600.00	90.45	6.58	4,839.95	5,013.53	578.54	5,046.80	0.00	0.00	0.00
9,700.00	90.45	6.58	4,839.15	5,112.86	590.01	5,146.79	0.00	0.00	0.00
9,800.00	90.45	6.58	4,838.36	5,212.20	601.47	5,246.79	0.00	0.00	0.00
9,845.29	90.45	6.58	4,838.00	5,257.19	606.66	5,292.08	0.00	0.00	0.00
PBHL @ 9845.29 MD 4838.00 TVD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Scrooge 2H BHL 330 FN - hit/miss target - Shape - plan hits target center - Point	0.00	360.00	4,838.00	5,257.19	606.66	128,795.80	1,983,094.50	37.02036876	-98.55789982

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
1,000.00	1,000.00	9-5/8" Surface Casing	9-5/8	12-1/4	
5,600.00	4,871.68	7" Intermediate Casing	7	8-3/4	

Planning Report

Database:	DT_Jan1924v17	Local Co-ordinate Reference:	Well Scrooge 2H
Company:	McGinness Energy Company	TVD Reference:	RKB=1375+15 @ 1390.00ft
Project:	Barber County, Kansas NAD27 Ks S	MD Reference:	RKB=1375+15 @ 1390.00ft
Site:	Section 18-T35S-R11W	North Reference:	Grid
Well:	Scrooge 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev8		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,833.00	3,833.00	Heebner Shahle		0.00	
4,329.13	4,328.00	Stark Shale		0.00	
4,382.12	4,379.00	Kansas City		0.00	
4,654.67	4,608.00	Base KC		0.00	
4,915.05	4,753.00	Cherokee		0.00	
5,082.77	4,832.00	Mississippian		0.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
4,198.56	4,198.56	0.00	0.00		KOP Begin 10°/100' build
4,798.56	4,694.76	284.59	32.83		Begin 60.00° tangent
5,003.56	4,797.26	460.96	53.17		Begin 10°/100' build
5,308.11	4,874.00	750.06	86.53		Begin 90.45° lateral
9,845.29	4,838.00	5,257.19	606.66		PBHL @ 9845.29 MD 4838.00 TVD

Planning Report - Geographic

Database:	DT_Jan1924v17	Local Co-ordinate Reference:	Well Scrooge 2H
Company:	McGinness Energy Company	TVD Reference:	RKB=1375+15 @ 1390.00ft
Project:	Barber County, Kansas NAD27 Ks S	MD Reference:	RKB=1375+15 @ 1390.00ft
Site:	Section 18-T35S-R11W	North Reference:	Grid
Well:	Scrooge 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev8		

Project	Barber County, Kansas NAD27 Ks S		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Kansas South 1502		Using geodetic scale factor

Site	Section 18-T35S-R11W				
Site Position:		Northing:	123,646.90 usft	Latitude:	37.00622680
From:	Map	Easting:	1,982,502.20 usft	Longitude:	-98.55991706
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "		

Well	Scrooge 2H, Surf loc: 250 FNL 2130 FWL Section 18					
Well Position	+N/-S	0.00 ft	Northing:	123,538.30 usft	Latitude:	37.00592851
	+E/-W	0.00 ft	Easting:	1,982,487.80 usft	Longitude:	-98.55996613
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	1,375.00 ft
Grid Convergence:		-0.04 °				

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	1/19/2024	3.80	64.52	50,396.27492139

Design	rev8				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	6.58	

Plan Survey Tool Program	Date	1/24/2024			
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	9,845.29 rev8 (Original Hole)	MWD	OWSG MWD - Standard	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,198.56	0.00	0.00	4,198.56	0.00	0.00	0.00	0.00	0.00	0.00	
4,798.56	60.00	6.58	4,694.76	284.59	32.83	10.00	10.00	0.00	6.58	
5,003.56	60.00	6.58	4,797.26	460.96	53.17	0.00	0.00	0.00	0.00	
5,308.11	90.45	6.58	4,874.00	750.06	86.53	10.00	10.00	0.00	0.01	
9,845.29	90.45	6.58	4,838.00	5,257.19	606.66	0.00	0.00	0.00	0.00	Scrooge 2H BHL 330

Planning Report - Geographic

Database:	DT_Jan1924v17	Local Co-ordinate Reference:	Well Scrooge 2H
Company:	McGinness Energy Company	TVD Reference:	RKB=1375+15 @ 1390.00ft
Project:	Barber County, Kansas NAD27 Ks S	MD Reference:	RKB=1375+15 @ 1390.00ft
Site:	Section 18-T35S-R11W	North Reference:	Grid
Well:	Scrooge 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev8		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.00	0.00	0.00	0.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
100.00	0.00	0.00	100.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
200.00	0.00	0.00	200.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
300.00	0.00	0.00	300.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
400.00	0.00	0.00	400.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
500.00	0.00	0.00	500.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
600.00	0.00	0.00	600.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
700.00	0.00	0.00	700.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
800.00	0.00	0.00	800.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
900.00	0.00	0.00	900.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
9-5/8" Surface Casing										
1,100.00	0.00	0.00	1,100.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
1,400.00	0.00	0.00	1,400.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
1,700.00	0.00	0.00	1,700.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
1,800.00	0.00	0.00	1,800.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
1,900.00	0.00	0.00	1,900.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
2,100.00	0.00	0.00	2,100.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
2,200.00	0.00	0.00	2,200.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
2,300.00	0.00	0.00	2,300.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
2,400.00	0.00	0.00	2,400.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
2,600.00	0.00	0.00	2,600.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
2,700.00	0.00	0.00	2,700.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
2,800.00	0.00	0.00	2,800.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
2,900.00	0.00	0.00	2,900.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
3,100.00	0.00	0.00	3,100.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
3,200.00	0.00	0.00	3,200.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
3,300.00	0.00	0.00	3,300.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
3,400.00	0.00	0.00	3,400.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
3,500.00	0.00	0.00	3,500.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
3,600.00	0.00	0.00	3,600.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
3,700.00	0.00	0.00	3,700.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
3,800.00	0.00	0.00	3,800.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
3,833.00	0.00	0.00	3,833.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
Heebner Shahle										
3,900.00	0.00	0.00	3,900.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
4,100.00	0.00	0.00	4,100.00	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
4,198.56	0.00	0.00	4,198.56	0.00	0.00	123,538.30	1,982,487.80	37.00592851	-98.55996613	
KOP Begin 10°/100' build										
4,200.00	0.14	6.58	4,200.00	0.00	0.00	123,538.30	1,982,487.80	37.00592852	-98.55996613	
4,250.00	5.14	6.58	4,249.93	2.29	0.26	123,540.60	1,982,488.07	37.00593481	-98.55996523	
4,300.00	10.14	6.58	4,299.47	8.90	1.03	123,547.20	1,982,488.83	37.00595295	-98.55996264	
4,329.13	13.06	6.58	4,328.00	14.72	1.70	123,553.02	1,982,489.50	37.00596893	-98.55996035	
Stark Shale										
4,350.00	15.14	6.58	4,348.24	19.77	2.28	123,558.07	1,982,490.08	37.00598281	-98.55995837	

Planning Report - Geographic

Database:	DT_Jan1924v17	Local Co-ordinate Reference:	Well Scrooge 2H
Company:	McGinness Energy Company	TVD Reference:	RKB=1375+15 @ 1390.00ft
Project:	Barber County, Kansas NAD27 Ks S	MD Reference:	RKB=1375+15 @ 1390.00ft
Site:	Section 18-T35S-R11W	North Reference:	Grid
Well:	Scrooge 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev8		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
4,382.12	18.36	6.58	4,379.00	28.96	3.34	123,567.27	1,982,491.15	37.00600806	-98.55995476	
Kansas City										
4,400.00	20.14	6.58	4,395.88	34.82	4.02	123,573.12	1,982,491.82	37.00602415	-98.55995246	
4,450.00	25.14	6.58	4,442.01	53.93	6.22	123,592.24	1,982,494.03	37.00607666	-98.55994495	
4,500.00	30.14	6.58	4,486.29	76.97	8.88	123,615.28	1,982,496.68	37.00613994	-98.55993590	
4,550.00	35.14	6.58	4,528.37	103.76	11.97	123,642.07	1,982,499.77	37.00621351	-98.55992538	
4,600.00	40.14	6.58	4,567.95	134.08	15.47	123,672.40	1,982,503.27	37.00629681	-98.55991346	
4,650.00	45.14	6.58	4,604.72	167.72	19.35	123,706.04	1,982,507.15	37.00638921	-98.55990025	
4,654.67	45.61	6.58	4,608.00	171.03	19.73	123,709.34	1,982,507.53	37.00639828	-98.55989895	
Base KC										
4,700.00	50.14	6.58	4,638.40	204.42	23.58	123,742.73	1,982,511.39	37.00649000	-98.55988584	
4,750.00	55.14	6.58	4,668.72	243.89	28.13	123,782.20	1,982,515.94	37.00659841	-98.55987033	
4,798.56	60.00	6.58	4,694.76	284.59	32.83	123,822.91	1,982,520.63	37.00671022	-98.55985434	
Begin 60.00° tangent										
4,800.00	60.00	6.58	4,695.48	285.83	32.97	123,824.15	1,982,520.78	37.00671362	-98.55985386	
4,900.00	60.00	6.58	4,745.48	371.86	42.89	123,910.19	1,982,530.70	37.00694993	-98.55982006	
4,915.05	60.00	6.58	4,753.00	384.81	44.39	123,923.13	1,982,532.19	37.00698549	-98.55981498	
Cherokee										
5,003.56	60.00	6.58	4,797.26	460.96	53.17	123,999.29	1,982,540.98	37.00719465	-98.55978506	
Begin 10°/100' build										
5,050.00	64.64	6.58	4,818.82	501.80	57.88	124,040.13	1,982,545.69	37.00730684	-98.55976902	
5,082.77	67.92	6.58	4,832.00	531.60	61.32	124,069.93	1,982,549.13	37.00738869	-98.55975731	
Mississippian										
5,100.00	69.64	6.58	4,838.24	547.56	63.16	124,085.89	1,982,550.97	37.00743252	-98.55975104	
5,150.00	74.64	6.58	4,853.56	594.82	68.61	124,133.16	1,982,556.42	37.00756234	-98.55973247	
5,200.00	79.64	6.58	4,864.68	643.23	74.20	124,181.57	1,982,562.01	37.00769531	-98.55971345	
5,250.00	84.64	6.58	4,871.52	692.42	79.88	124,230.76	1,982,567.69	37.00783042	-98.55969412	
5,300.00	89.64	6.58	4,874.01	742.01	85.60	124,280.36	1,982,573.41	37.00796664	-98.55967463	
5,308.11	90.45	6.58	4,874.00	750.06	86.53	124,288.41	1,982,574.34	37.00798876	-98.55967147	
Begin 90.45° lateral										
5,400.00	90.45	6.58	4,873.27	841.35	97.06	124,379.70	1,982,584.87	37.00823950	-98.55963559	
5,500.00	90.45	6.58	4,872.48	940.69	108.53	124,479.05	1,982,596.34	37.00851236	-98.55959655	
5,600.00	90.45	6.58	4,871.68	1,040.22	119.99	124,578.39	1,982,607.80	37.00878521	-98.55955751	
7" Intermediate Casing										
5,700.00	90.45	6.58	4,870.89	1,139.36	131.45	124,677.73	1,982,619.27	37.00905807	-98.55951846	
5,800.00	90.45	6.58	4,870.10	1,238.70	142.92	124,777.08	1,982,630.73	37.00933093	-98.55947942	
5,900.00	90.45	6.58	4,869.30	1,338.04	154.38	124,876.42	1,982,642.20	37.00960378	-98.55944038	
6,000.00	90.45	6.58	4,868.51	1,437.38	165.85	124,975.76	1,982,653.66	37.00987664	-98.55940134	
6,100.00	90.45	6.58	4,867.72	1,536.71	177.31	125,075.11	1,982,665.12	37.01014950	-98.55936230	
6,200.00	90.45	6.58	4,866.92	1,636.05	188.77	125,174.45	1,982,676.59	37.01042235	-98.55932325	
6,300.00	90.45	6.58	4,866.13	1,735.39	200.24	125,273.79	1,982,688.05	37.01069521	-98.55928421	
6,400.00	90.45	6.58	4,865.34	1,834.73	211.70	125,373.14	1,982,699.52	37.01096807	-98.55924516	
6,500.00	90.45	6.58	4,864.54	1,934.06	223.17	125,472.48	1,982,710.98	37.01124093	-98.55920612	
6,600.00	90.45	6.58	4,863.75	2,033.40	234.63	125,571.82	1,982,722.45	37.01151378	-98.55916708	
6,700.00	90.45	6.58	4,862.96	2,132.74	246.09	125,671.17	1,982,733.91	37.01178664	-98.55912803	
6,800.00	90.45	6.58	4,862.16	2,232.08	257.56	125,770.51	1,982,745.38	37.01205950	-98.55908899	
6,900.00	90.45	6.58	4,861.37	2,331.41	269.02	125,869.85	1,982,756.84	37.01233235	-98.55904994	
7,000.00	90.45	6.58	4,860.58	2,430.75	280.48	125,969.20	1,982,768.31	37.01260521	-98.55901090	
7,100.00	90.45	6.58	4,859.78	2,530.09	291.95	126,068.54	1,982,779.77	37.01287807	-98.55897185	
7,200.00	90.45	6.58	4,858.99	2,629.43	303.41	126,167.88	1,982,791.23	37.01315092	-98.55893280	
7,300.00	90.45	6.58	4,858.20	2,728.76	314.88	126,267.23	1,982,802.70	37.01342378	-98.55889376	
7,400.00	90.45	6.58	4,857.40	2,828.10	326.34	126,366.57	1,982,814.16	37.01369664	-98.55885471	
7,500.00	90.45	6.58	4,856.61	2,927.44	337.80	126,465.92	1,982,825.63	37.01396949	-98.55881566	
7,600.00	90.45	6.58	4,855.82	3,026.78	349.27	126,565.26	1,982,837.09	37.01424235	-98.55877662	

Planning Report - Geographic

Database:	DT_Jan1924v17	Local Co-ordinate Reference:	Well Scrooge 2H
Company:	McGinness Energy Company	TVD Reference:	RKB=1375+15 @ 1390.00ft
Project:	Barber County, Kansas NAD27 Ks S	MD Reference:	RKB=1375+15 @ 1390.00ft
Site:	Section 18-T35S-R11W	North Reference:	Grid
Well:	Scrooge 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev8		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
7,700.00	90.45	6.58	4,855.02	3,126.11	360.73	126,664.60	1,982,848.56	37.01451521	-98.55873757	
7,800.00	90.45	6.58	4,854.23	3,225.45	372.20	126,763.95	1,982,860.02	37.01478806	-98.55869852	
7,900.00	90.45	6.58	4,853.43	3,324.79	383.66	126,863.29	1,982,871.49	37.01506092	-98.55865947	
8,000.00	90.45	6.58	4,852.64	3,424.13	395.12	126,962.63	1,982,882.95	37.01533378	-98.55862043	
8,100.00	90.45	6.58	4,851.85	3,523.46	406.59	127,061.98	1,982,894.42	37.01560663	-98.55858138	
8,200.00	90.45	6.58	4,851.05	3,622.80	418.05	127,161.32	1,982,905.88	37.01587949	-98.55854233	
8,300.00	90.45	6.58	4,850.26	3,722.14	429.51	127,260.66	1,982,917.34	37.01615235	-98.55850328	
8,400.00	90.45	6.58	4,849.47	3,821.48	440.98	127,360.01	1,982,928.81	37.01642520	-98.55846423	
8,500.00	90.45	6.58	4,848.67	3,920.81	452.44	127,459.35	1,982,940.27	37.01669806	-98.55842518	
8,600.00	90.45	6.58	4,847.88	4,020.15	463.91	127,558.69	1,982,951.74	37.01697092	-98.55838613	
8,700.00	90.45	6.58	4,847.09	4,119.49	475.37	127,658.04	1,982,963.20	37.01724377	-98.55834708	
8,800.00	90.45	6.58	4,846.29	4,218.83	486.83	127,757.38	1,982,974.67	37.01751663	-98.55830803	
8,900.00	90.45	6.58	4,845.50	4,318.16	498.30	127,856.72	1,982,986.13	37.01778949	-98.55826898	
9,000.00	90.45	6.58	4,844.71	4,417.50	509.76	127,956.07	1,982,997.60	37.01806234	-98.55822993	
9,100.00	90.45	6.58	4,843.91	4,516.84	521.23	128,055.41	1,983,009.06	37.01833520	-98.55819088	
9,200.00	90.45	6.58	4,843.12	4,616.18	532.69	128,154.75	1,983,020.53	37.01860805	-98.55815182	
9,300.00	90.45	6.58	4,842.33	4,715.51	544.15	128,254.10	1,983,031.99	37.01888091	-98.55811277	
9,400.00	90.45	6.58	4,841.53	4,814.85	555.62	128,353.44	1,983,043.45	37.01915377	-98.55807372	
9,500.00	90.45	6.58	4,840.74	4,914.19	567.08	128,452.78	1,983,054.92	37.01942662	-98.55803467	
9,600.00	90.45	6.58	4,839.95	5,013.53	578.54	128,552.13	1,983,066.38	37.01969948	-98.55799561	
9,700.00	90.45	6.58	4,839.15	5,112.86	590.01	128,651.47	1,983,077.85	37.01997234	-98.55795656	
9,800.00	90.45	6.58	4,838.36	5,212.20	601.47	128,750.82	1,983,089.31	37.02024519	-98.55791751	
9,845.29	90.45	6.58	4,838.00	5,257.19	606.66	128,795.80	1,983,094.50	37.02036876	-98.55789982	
PBHL @ 9845.29 MD 4838.00 TVD										

Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
Scrooge 2H BHL 330 FN - plan hits target center - Point	0.00	360.00	4,838.00	5,257.19	606.66	128,795.80	1,983,094.50	37.02036876	-98.55789982	

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
1,000.00	1,000.00	9-5/8" Surface Casing	9-5/8	12-1/4	
5,600.00	4,871.68	7" Intermediate Casing	7	8-3/4	

Planning Report - Geographic

Database:	DT_Jan1924v17	Local Co-ordinate Reference:	Well Scrooge 2H
Company:	McGinness Energy Company	TVD Reference:	RKB=1375+15 @ 1390.00ft
Project:	Barber County, Kansas NAD27 Ks S	MD Reference:	RKB=1375+15 @ 1390.00ft
Site:	Section 18-T35S-R11W	North Reference:	Grid
Well:	Scrooge 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev8		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,833.00	3,833.00	Heebner Shahle		0.00	
4,329.13	4,328.00	Stark Shale		0.00	
4,382.12	4,379.00	Kansas City		0.00	
4,654.67	4,608.00	Base KC		0.00	
4,915.05	4,753.00	Cherokee		0.00	
5,082.77	4,832.00	Mississippian		0.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
4,198.56	4,198.56	0.00	0.00	KOP Begin 10°/100' build	
4,798.56	4,694.76	284.59	32.83	Begin 60.00° tangent	
5,003.56	4,797.26	460.96	53.17	Begin 10°/100' build	
5,308.11	4,874.00	750.06	86.53	Begin 90.45° lateral	
9,845.29	4,838.00	5,257.19	606.66	PBHL @ 9845.29 MD 4838.00 TVD	

McGinness Energy

Scrooge 2H
Sec 18 & 7, T35S R11W
Barber County, KS



By: Leah Kasten
January 26, 2024

R11W

Scrooge 2H

BH: 330' FNL & 2640' FWL,
Sec 7, T35S R11W
X: 1983094.5
Y: 128795.8
Lat: 37.0203687
Lon: -98.5578998

7

T
35
S

Access Road
• Tank Battery & Tie In
Approx. Drilling Pad

2130' FWL

250' FNL
Scrooge 2H

SH: 250' FNL & 2130' FWL,
Sec 18, T35S R11W
X: 1982487.8
Y: 123538.3
Lat: 37.0059286
Lon: -98.5599660

18

1



OIL FIELD SURVEYORS

BOX 8604 - PRATT, KS 67124
(620) 672-6491

118241
INVOICE NO.

McGINNESS ENERGY CO. INC
OPERATOR

2H
NO.

SCROOGE
FARM

BARBER CO KS 18 35s 11w
COUNTY S T R

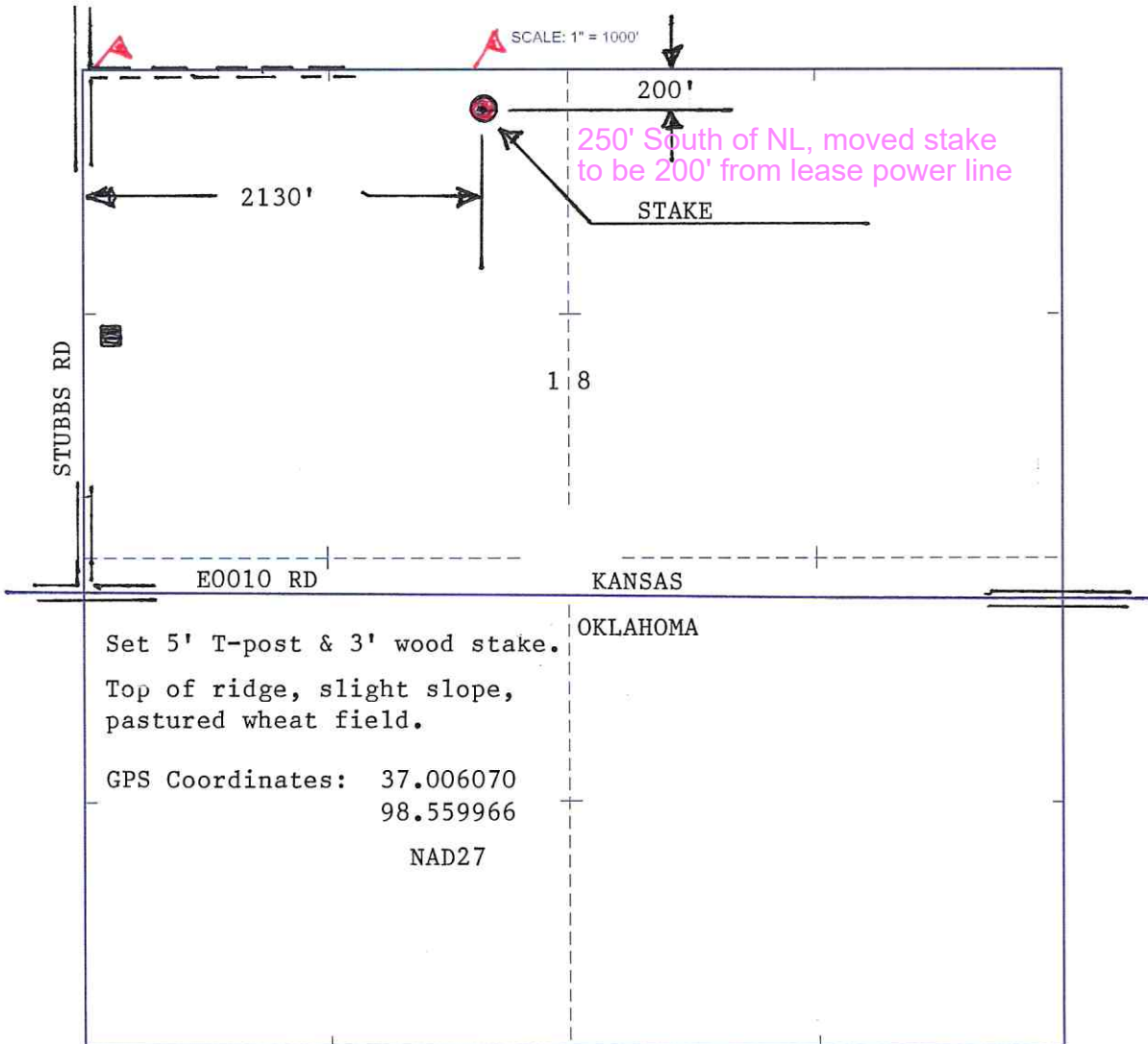
200 FNL & 210' FWL of Sec.
LOCATION

ELEVATION: 1375' GR

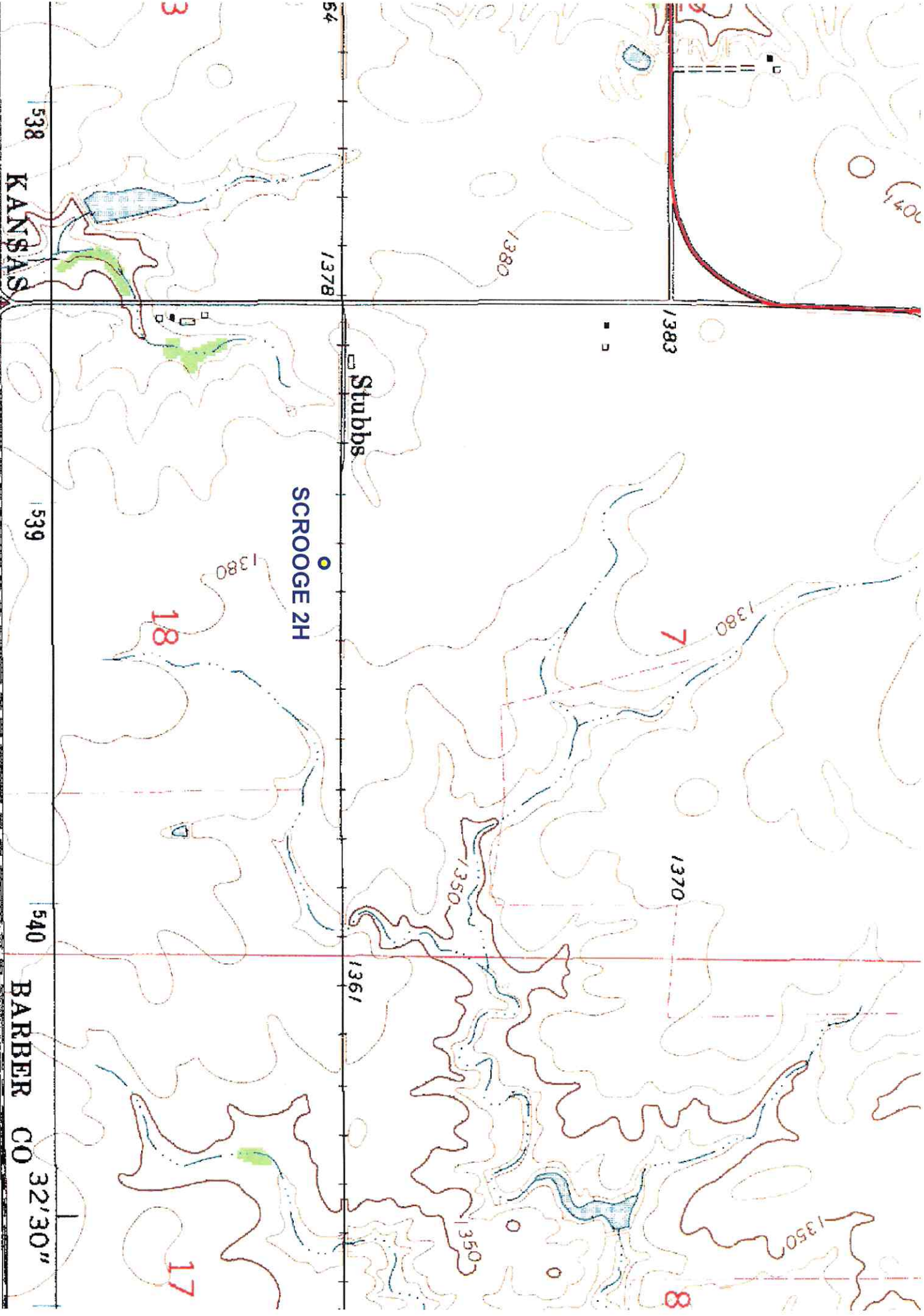


McGINNESS ENERGY CO INC.
9330 E. Central Ave, Suite 300
Wichita, KS 67206

AUTHORIZED BY: Doug McGinness 11



DATE STAKED: 1/18/24



2 W OKLAHOMA

(CAPRON) R 11 W

WOODS CO ALFALFA

KANSAS

BARBER CO 32'30"

Stubbbs

SCROOGE 2H

3

18

17

7

8

538

539

540

54

1378

1361

1383

1370

1380

1380

1350


1350

Stubbbs, KS Scale: 1" = 0.189MI, 305Mt, 1,000Ft, 1 MI = 5,280", 1 cm = 120Mt

Untitled Map

Write a description for your map.

Legend

 37.00607 -98.559966

Stubbs Rd

 37:00607 -98:559966

KANSAS

E0010 Rd

500

Google Earth

2000 ft



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 31, 2024

Douglas H. McGinness II
McGinness Energy Company, Inc.
9330 E Central Ave Suite 300
WICHITA, KS 67206-6628

Re: Drilling Pit Application
Scrooge 2H
NW/4 Sec.18-35S-11W
Barber County, Kansas

Dear Douglas H. McGinness II:

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.