

OKLAHOMA CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
P.O. BOX 52000
OKLAHOMA CITY, OK 73152-2000
(Rule 165:10-3-1)

API NUMBER: 051 24322

Approval Date: 04/09/2018

Expiration Date: 10/09/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 13 Twp: 9N Rge: 6W

County: GRADY

SPOT LOCATION: ☐ NE ☐ NW ☐ NE ☐ NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 249 800

Lease Name: LANGSTON 12-1-9-6

Well No: 1XH

Well will be 249 feet from nearest unit or lease boundary.

Operator Name: LINN OPERATING LLC

Telephone: 2818404010; 4052412

OTC/OCC Number: 22182 0

LINN OPERATING LLC
600 TRAVIS ST STE 1400
HOUSTON, TX 77002-3005

JOSEPH HARTIN LANGSTON
207 PRIMROSE LANE
FLUSHING MI 48433

Formation(s) (Permit Valid for Listed Formations Only):

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	10350	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 144013
256715

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201802462
201802463
201802466
201802464
201802471
201802470

Special Orders:

Total Depth: 18516

Ground Elevation: 1381

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 450

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: Yes

Surface Water used to Drill: No

PIT 1 INFORMATION

Type of Pit System: ON SITE

Type of Mud System: WATER BASED

Chlorides Max: 5000 Average: 3000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is not located in a Hydrologically Sensitive Area.

Category of Pit: 2

Liner not required for Category: 2

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

B. Solidification of pit contents.

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 18-34241

H. SEE MEMO

This permit does not address the right of entry or settlement of surface damages.

The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

PIT 2 INFORMATION

Type of Pit System: ON SITE

Type of Mud System: OIL BASED

Chlorides Max: 300000 Average: 200000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is not located in a Hydrologically Sensitive Area.

Category of Pit: 3

Liner required for Category: 3

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

HORIZONTAL HOLE 1

Sec 01 Twp 9N Rge 6W County GRADY

Spot Location of End Point: SE SE SW NE

Feet From: NORTH 1/4 Section Line: 2540

Feet From: EAST 1/4 Section Line: 1585

Depth of Deviation: 9742

Radius of Turn: 573

Direction: 353

Total Length: 7873

Measured Total Depth: 18516

True Vertical Depth: 10700

End Point Location from Lease,

Unit, or Property Line: 1585

Additional Surface Owner	Address	City, State, Zip
ANNE H. & JOE HARTIN LANGSTON	207 PRIMROSE LANE	FLUSHING, MI 48433
NATHAN ORLAND LANGSTON	#1 BLACKJACK LANE	COPPER CANYON, TX 75077

Notes:

Category

Description

DEEP SURFACE CASING

4/3/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

4/3/2018 - G71 - OCC 165:10-3-10 REQUIRES:

1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;

2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: OCCWEB.COM/OG/OGFORMS.HTML; AND,

3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: FRACFOCUS.ORG

MEMO

4/3/2018 - G71 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

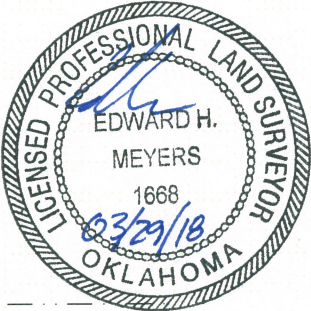
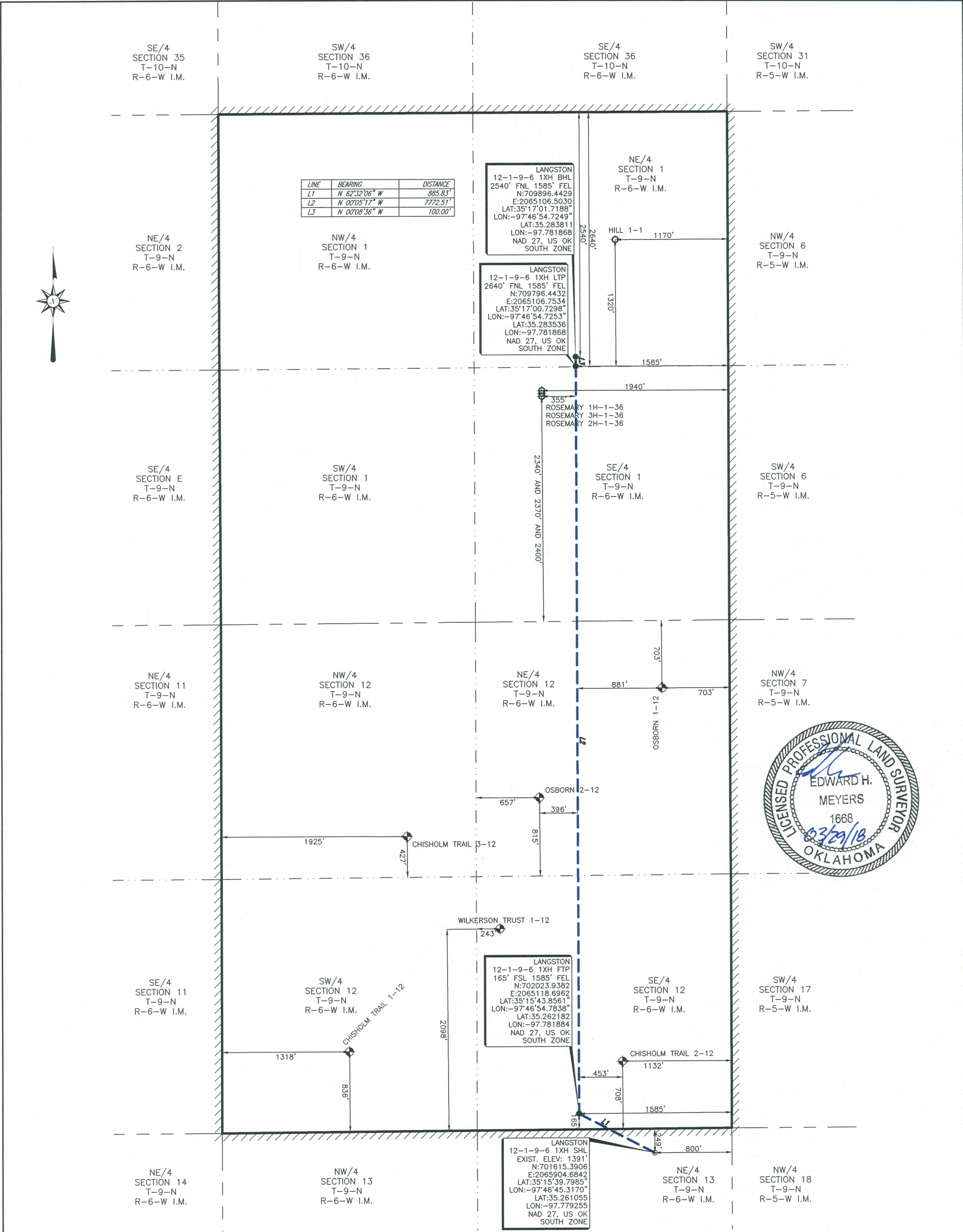
This permit does not address the right of entry or settlement of surface damages.

051 24322 LANGSTON 12-1-9-6 1XH

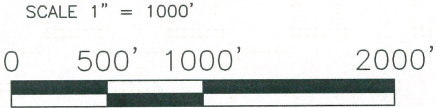
The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

Category	Description
PENDING CD - 201802462	4/3/2018 - G57 - (E.O.) 12 & 1-9N-6W X256715 MSSP 1-9N-6W X144013 MSSP 12-9N-6W 50% 1-9N-6W 50% 12-9N-6W ROAN RESOURCES, LLC. ** REC 4-3-2018 (NORRIS) **S/B LINN OPERATING; WILL BE CHANGED AT MERIT HEARING PER ATTORNEY FOR OPERATOR
PENDING CD - 201802463	4/3/2018 - G57 - (E.O.) 12 & 1-9N-6W X256715 MSSP 1-9N-6W X144013 MSSP 12-9N-6W COMPL. INT. (12-9N-6W) NCT 165' FSL, NCT 0' FNL, NCT 1320' FEL COMPL. INT. (1-9N-6W) NCT 0' FSL, NCT 165' FNL, NCT 1320' FEL ROAN RESOURCES, LLC. ** REC 4-3-2018 (NORRIS) **S/B LINN OPERATING; WILL BE CHANGED AT MERIT HEARING PER ATTORNEY FOR OPERATOR
PENDING CD - 201802464	4/3/2018 - G57 - (E.O.) 1-9N-6W X256715 MSSP 2 WELLS NO OP. NAMED REC 4-3-2018 (NORRIS)
PENDING CD - 201802466	4/3/2018 - G57 - (E.O.) 12-9N-6W X144013 MSSP 2 WELLS NO OP. NAMED REC 4-3-2018 (NORRIS)
PENDING CD - 201802470	4/3/2018 - G57 - (E.O.) 1-9N-6W X165:10-3-28(C)(2)(B) MSSP (LANGSTON 12-1-9-6-1HX) NCT 363' FROM THE ROSEMARY 2H-1-36 & NCT 368' FROM THE ROSEMARY 3H-1-36 NO OP. NAMED REC 4-3-2018 (NORRIS)
PENDING CD - 201802471	4/3/2018 - G57 - (E.O.) 12-9N-6W X165:10-3-28(C)(2)(B) MSSP (LANGSTON 12-1-9-6-1XH) MAY BE NCT 395' FROM THE OSBORN 2-12 & NCT 595' FROM THE CHISHOLM TRAIL 2-12 NO OP. NAMED REC 4-3-2018 (NORRIS)
SPACING - 144013	4/3/2018 - G57 - (640) 12-9N-6W EXT OTHERS EST MSSP, OTHERS
SPACING - 256715	4/3/2018 - G57 - (640) 1-9N-6W EXT OTHERS EXT 253223 MSSP, OTHERS EST OTHER



PERMIT PLAT OF
LINN OPERATING, INC
LANGSTON 12-1-9-6 1XH
249' FNL 800' FEL OF SECTION 13
MINCO FIELD
SECTION 12, TOWNSHIP 9 NORTH, RANGE 6 WEST I.M. &
SECTION 1, TOWNSHIP 9 NORTH, RANGE 6 WEST I.M.
LEASE LINES
SHL: 249' FSL 800' FEL
GRADY COUNTY, OKLAHOMA



NOTE:
1. COMBINED SCALE FACTOR: 0.999947069
2. SHL IS APPROXIMATELY 2.76 MILES S 42°12'56" E OF TUTTLE OKLAHOMA.

FILE: S:\OK\GRADY\PROJECTS\T09N-R06W\DWG

LEGEND	
SHL	SURFACE HOLE LOCATION
PP	PENETRATION POINT
FTP	FIRST TAKE POINT
LTP	LAST TAKE POINT
BHL	BOTTOM HOLE LOCATION
OCC	OKLAHOMA CORPORATION COMMISSION
POINT	POINT
EXISTING WELLHEAD	EXISTING WELLHEAD
PROPOSED WELL LOCATION SET	PROPOSED WELL LOCATION SET
SURFACE LOCATION OBTAINED FROM OCC	SURFACE LOCATION OBTAINED FROM OCC

John F. Watson & Company
LAND & DEVELOPMENT SERVICES
PROFESSIONAL LAND SURVEYORS
200 N. LORAIN, Ste. 220
Midland, Texas 79701
www.johnwatson.com

OFF: (432) 520-2400
FAX: (432) 520-2404

CA#5957 EXPIRATION 6-30-2019
200 N LORAIN #220
MIDLAND, TX 79701
(432) 520-2400

NOTES: 1. THE UNDERSIGNED, DO HEREBY CERTIFY THAT THE SURVEY INFORMATION FOUND ON THIS PLAT WAS DERIVED FROM ACTUAL FIELD NOTES OF ON-THE-GROUND SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

AS-DRILLED LATERAL
SUBJECT PROPOSED LATERAL
PROPOSED LATERAL
LEASE LINE
SURVEY LINE

ORIGINAL STAKE DATE: 03/19/18
ADDED LATERAL DATE: 03/28/18

REV: -	AFE NO.: -	JOB NO.: 18-0021
FIELD BOOK: SERVER	VER: 1	DRAWN BY: EHM

NOTE:
1. BEARINGS, DISTANCES & ACREAGE ARE GRID, NAD 27 US OK SOUTH ZONE AND ARE OBTAINED BY NORMAL GPS TECHNIQUES.
2. ELEVATIONS ARE BASED ON NAVD 88 COMPUTED USING GEOID 12B.
3. THIS SURVEY IS FOR AN OIL & GAS SUB-SURFACE LEASE AND IS NOT A BOUNDARY SURVEY.
4. LOCATION OF ADJOINING WELLS OUTSIDE LEASE BOUNDARY ARE APPROXIMATED FROM OKLAHOMA CORPORATION COMMISSION DATA.
5. DOWNHOLE INFORMATION PROVIDED BY THE CLIENT.
6. THIS SURVEY COMPLIES WITH THE US PUBLIC LAND SURVEY SYSTEM AND MEETS THE OKLAHOMA MINIMUM STANDARDS FOR THE PRACTICE OF LAND SURVEYING AS ADOPTED BY THE OKLAHOMA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS, EFFECTIVE JULY 29, 2013.
7. THIS IS NOT A BOUNDARY SURVEY.
8. THIS PERMIT PLAT HAS BEEN PREPARED FROM A SURVEY PLAT ON FILE IN THE OFFICE OF JOHN F. WATSON & COMPANY, MIDLAND, TEXAS.
I, THE UNDERSIGNED, DO HEREBY CERTIFY THAT THE SURVEY INFORMATION FOUND ON THIS PLAT WAS DERIVED FROM ACTUAL FIELD NOTES OF ON-THE-GROUND SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

03/28/18

SHEET 1 OF 1