

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

API NUMBER: 051 24268

Approval Date: 01/31/2018

Expiration Date: 07/31/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 08 Twp: 10N Rge: 6W

County: GRADY

SPOT LOCATION: ☐ NW ☐ SW ☐ SE ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 439 1391

Lease Name: ORANGE SHERBET 17-10-6

Well No: 2H

Well will be 439 feet from nearest unit or lease boundary.

Operator  
Name: LINN OPERATING LLC

Telephone: 4052412237; 4052412

OTC/OCC Number: 22182 0

LINN OPERATING LLC  
14701 HERTZ QUAIL SPRINGS PKWY  
OKLAHOMA CITY, OK 73134-2641

WHB CATTLE, LP  
3000 NE 63RD ST  
OKLAHOMA CITY OK 73121

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	10200	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 285956

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201705737  
201707533

Special Orders:

Total Depth: 15500

Ground Elevation: 1230

**Surface Casing: 180**

Depth to base of Treatable Water-Bearing FM: 130

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: Yes

Surface Water used to Drill: No

**PIT 1 INFORMATION**

Type of Pit System: CLOSED Closed System Means Steel Pits

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? Y

Wellhead Protection Area? Y

Pit is located in a Hydrologically Sensitive Area.

**Category of Pit: C**

**Liner not required for Category: C**

Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

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: 18-33811

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: CLOSED Closed System Means Steel Pits

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? Y

Wellhead Protection Area? Y

Pit is located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec 17 Twp 10N Rge 6W County GRADY

Spot Location of End Point: SE SW SW SW

Feet From: SOUTH 1/4 Section Line: 65

Feet From: WEST 1/4 Section Line: 540

Depth of Deviation: 9054

Radius of Turn: 500

Direction: 190

Total Length: 5661

Measured Total Depth: 15500

True Vertical Depth: 10220

End Point Location from Lease,  
Unit, or Property Line: 65

Notes:

Category

Description

HYDRAULIC FRACTURING

1/22/2018 - 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: [OCCEWEB.COM/OG/OGFORMS.HTML](http://OCCEWEB.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](http://FRACFOCUS.ORG)

MEMO

1/22/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - CANADIAN RIVER), PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201705737

1/24/2018 - G58 - (I.O.) 17-10N-6W  
X285956 MSSP  
COMPL. INT. NCT 165' FNL, NCT 165' FSL, NCT 330' FEL\*\*  
NO OP. NAMED  
REC. 12/5/2017 (MINMIER)

\*\*WELL BEING DRILLED ON WEST SIDE, WILL FIX AT NEXT HEARING PER OP. AND ATTORNEY FOR OP

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

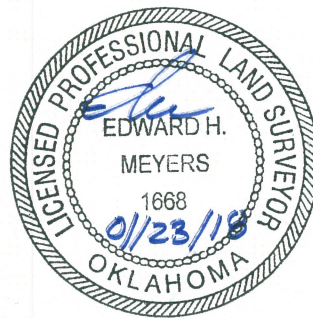
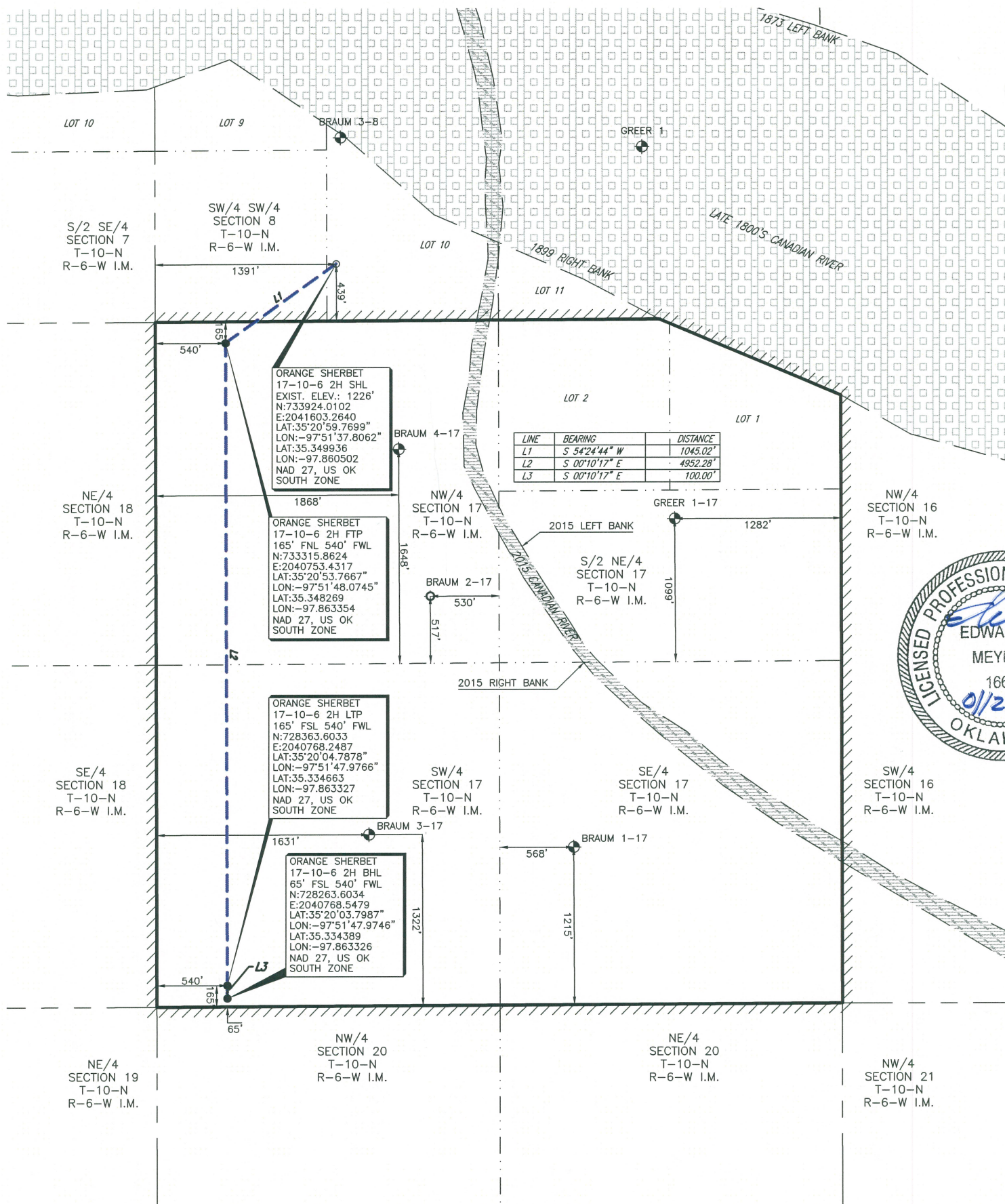
051 24268 ORANGE SHERBET 17-10-6 2H

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 - 201707533	1/24/2018 - G58 - (I.O.) 17-10N-6W X285956 MSSP 1 WELL NO OP. NAMED REC 121/5/2017 (MINMIER)
PUBLIC WATER SUPPLY WELLS	1/22/2018 - G71 - BRAUM'S DAIRY & PROCESSING PLT - 4 PWS/WPA, SW/4 17-10N-6N
SPACING - 285956	1/24/2018 - G58 - (640) 17-10N-6W EXT OTHERS EXT 266107 MSSP, OTHERS

051-24268

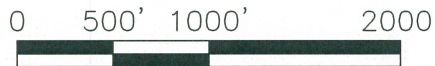


RIVER SURVEY NOTE:  
THE SECTION BOUNDARY SHOWN HEREON REPRESENTS THE CORRELATION BETWEEN THE SECTION CORNERS FOUND OF RECORD AND THE ORIGINAL GLO SURVEYS OF 1873 & 1874 NORTH BANK OF THE RIVER AND 1889 SOUTH BANK OF THE RIVER. DUE TO THE MOVEMENT OF THE CANADIAN RIVER AND THE INSTABILITY OF ITS BANKS THE EXACT BOUNDARY OF THE GOVERNMENT LOTS IS NOT REPRESENTED HEREON. THERE MAY BE RIGHTS TO TITLE THAT ARE SUBSTANTIALLY AFFECTED BY RIPARIAN LAW RELATED TO THE CHANGE IN THE COURSE OF THE RIVER. LEGAL COUNSEL SHOULD BE SOUGHT BEFORE RELYING ON THE INFORMATION SHOWN HEREON RELATING TO THE DIVISION OF ACTUAL PROPERTY RIGHTS. ADDITIONALLY THE ORIGINAL GLO SURVEYS STATED ABOVE NEVER CROSSED SAID RIVER.

- NOTE:
1. COMBINED SCALE FACTOR: 0.999947069
  2. SHL IS APPROXIMATELY 4.92 MILES N 34°02'35\"/>

PERMIT PLAT OF  
LINN OPERATING, INC  
**ORANGE SHERBET 17-10-6 2H**  
**439' FSL 1391' FWL OF SECTION 8**  
MINCO FIELD  
SECTION 17, TOWNSHIP 10 NORTH, RANGE 6 WEST I.M.  
**LEASE LINES**  
**SHL: 439' FSL & 1391' FWL**  
GRADY COUNTY, OKLAHOMA

SCALE 1" = 1000'



FILE: S:\OK\GRADY\PROJECTS\T10N-R06W\DWG\

**LEGEND**

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

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

ORIGINAL STAKE DATE: 12/12/17  
ADDED LATERAL DATE: 01/05/18  
UPDATED LATERAL DATE: 01/23/18

- 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 25, 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.

PROFESSIONAL LAND SURVEYOR

01/23/18

SHEET 1 OF 1

**John F. Watson & Company**

LAND & DEVELOPMENT SERVICES  
PROFESSIONAL LAND SURVEYORS  
200 N. LORAIN, Ste. 220  
Midland, Texas 79701  
off: (432) 520-2400  
fax: (432) 520-2404  
mob: (432) 528-0074  
jwatson@jwatsonwater.com



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

REV: 1 AFE NO.: - JOB NO.: 17-0167  
FIELD BOOK: SERVER VER: 1 DRAWN BY: EHM