

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

API NUMBER: 017 25211

Approval Date: 04/13/2018

Expiration Date: 10/13/2018

Straight Hole

Disposal

PERMIT TO DRILL

WELL LOCATION: Sec: 31 Twp: 11N Rge: 6W

County: CANADIAN

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 502 403

Lease Name: CANADIAN SWD

Well No: 1

Well will be 403 feet from nearest unit or lease boundary.

Operator Name: S & S STAR OPERATING LLC

Telephone: 3033046523

OTC/OCC Number: 23996 0

S & S STAR OPERATING LLC  
13190 N MACARTHUR BLVD  
OKLAHOMA CITY, OK 73142

FERN ZAJIC  
1105 JEREMY STREET  
EL RENO OK 73036

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

	Name	Depth	Name	Depth
1	WOLFCAMPIAN	3100	6	
2	VIRGILIAN	5100	7	
3			8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 6350

Ground Elevation: 1303

**Surface Casing: 500**

Depth to base of Treatable Water-Bearing FM: 340

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: ON SITE

A. Evaporation/dewater and backfilling of reserve pit.

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

Notes:

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.

Category	Description
HYDRAULIC FRACTURING	<p>4/6/2018 - G71 - OCC 165:10-3-10 REQUIRES:</p> <p>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;</p> <p>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: <a href="http://OCCEWEB.COM/OG/OGFORMS.HTML">OCCEWEB.COM/OG/OGFORMS.HTML</a>; AND,</p> <p>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: <a href="http://FRACFOCUS.ORG">FRACFOCUS.ORG</a></p>
SPACING	4/6/2018 - G71 - N/A - DISPOSAL WELL
SURFACE LOCATION	4/13/2018 - G75 - 502' FNL, 403' FWL NW4 31-11N-6W WITH GROUND ELEVATION 1303' PER STAKING PLAT

**TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA**

13800 Wireless Way, Okla. City, OK. 73134 (405) 843-4847 \* OUT OF STATE (800) 654-3219

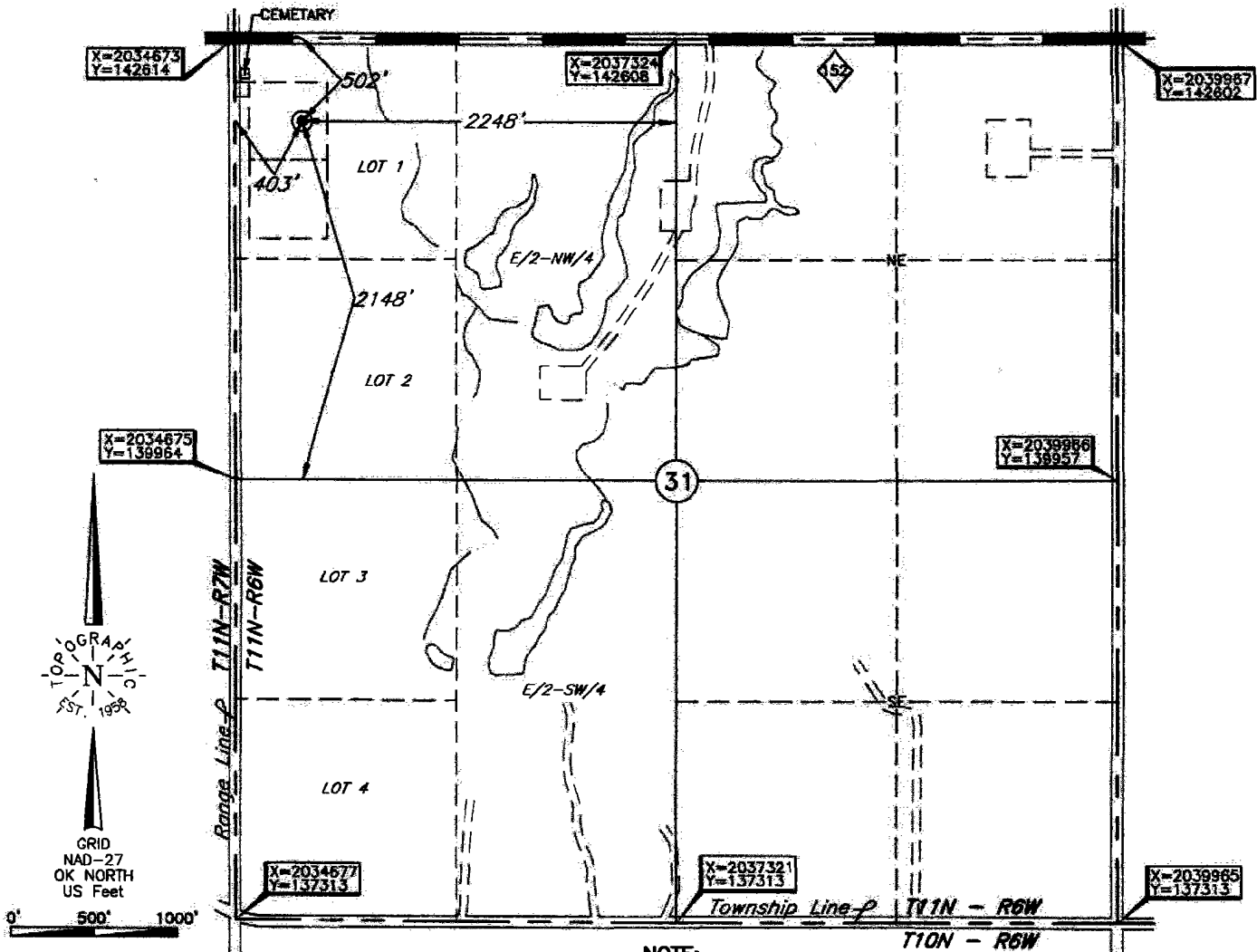
Certificate of Authorization No. 1293 LS

API 017-25211

CANADIAN

County, Oklahoma

502'FNL - 403'FWL Section 31 Township 11N Range 6W I.M.

Operator: S&S STAR OPERATING LLCLease Name: CANADIAN SWDWell No.: 1**ELEVATION:**1303' Gr. at StakeTopography & Vegetation Loc. fell in terraced wheat fieldGood Drill Site? YesReference Stakes or Alternate Location  
Stakes Set NoneBest Accessibility to Location From West off county road

Distance &amp; Direction

from Hwy Jct or Town From Union City, OK, go ±3.0 mi. East on St. Hwy. 152  
to the NW Cor. of Sec. 31-T11N-R6W

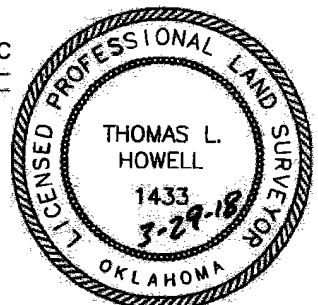
DATUM: NAD-27  
 LAT: 35°23'25.2"N  
 LONG: 97°52'56.4"W  
 LAT: 35.390340802° N  
 LONG: 97.882332924° W  
 STATE PLANE  
 COORDINATES: (US Feet)  
 ZONE: OK NORTH  
 X: 2035076  
 Y: 142111

Date of Drawing: Mar. 26, 2018  
 Invoice # 291051 Date Staked: Mar. 23, 2018 AC

**CERTIFICATE:**

I, Thomas L. Howell an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein

Thomas L. Howell  
 Oklahoma Lic. No. 1433



This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy