

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

API NUMBER: 017 25004

Approval Date: 04/26/2017  
Expiration Date: 10/26/2017

Straight Hole Disposal

PERMIT TO DRILL

WELL LOCATION: Sec: 25 Twp: 13N Rge: 9W County: CANADIAN  
SPOT LOCATION:  SW  NE  NE  NW FEET FROM QUARTER: FROM SOUTH FROM WEST  
SECTION LINES: 1985 2178

Lease Name: CALUMET Well No: 1 Well will be 450 feet from nearest unit or lease boundary.  
Operator Name: S & S STAR OPERATING LLC Telephone: 8173361924 OTC/OCC Number: 23996 0

S & S STAR OPERATING LLC  
1308 LAKE ST  
FORT WORTH, TX 76102-4505

CANADIAN STAR LAND LLC  
1382 NORTH MACARTHUR BLVD.  
OKLAHOMA CITY OK 73127

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

	Name	Depth	Name	Depth
1	PERMIAN	3200	6	
2	PENNSYLVANIAN	5460	7	
3			8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 8400 Ground Elevation: 1384 **Surface Casing: 375** Depth to base of Treatable Water-Bearing FM: 250

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: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 8000 Average: 5000

E. Haul to Commercial pit facility: Sec. 31 Twn. 12N Rng. 8W Cnty. 17 Order No: 587498

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

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: DOG CREEK

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	4/19/2017 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK <a href="http://fracfocus.org/">HTTP://FRACFOCUS.ORG/</a> WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE
SPACING	4/19/2017 - G71 - N/A - DISPOSAL WELL
TOTAL DEPTH	4/26/2017 - G75 - 8400' PER OPERATOR

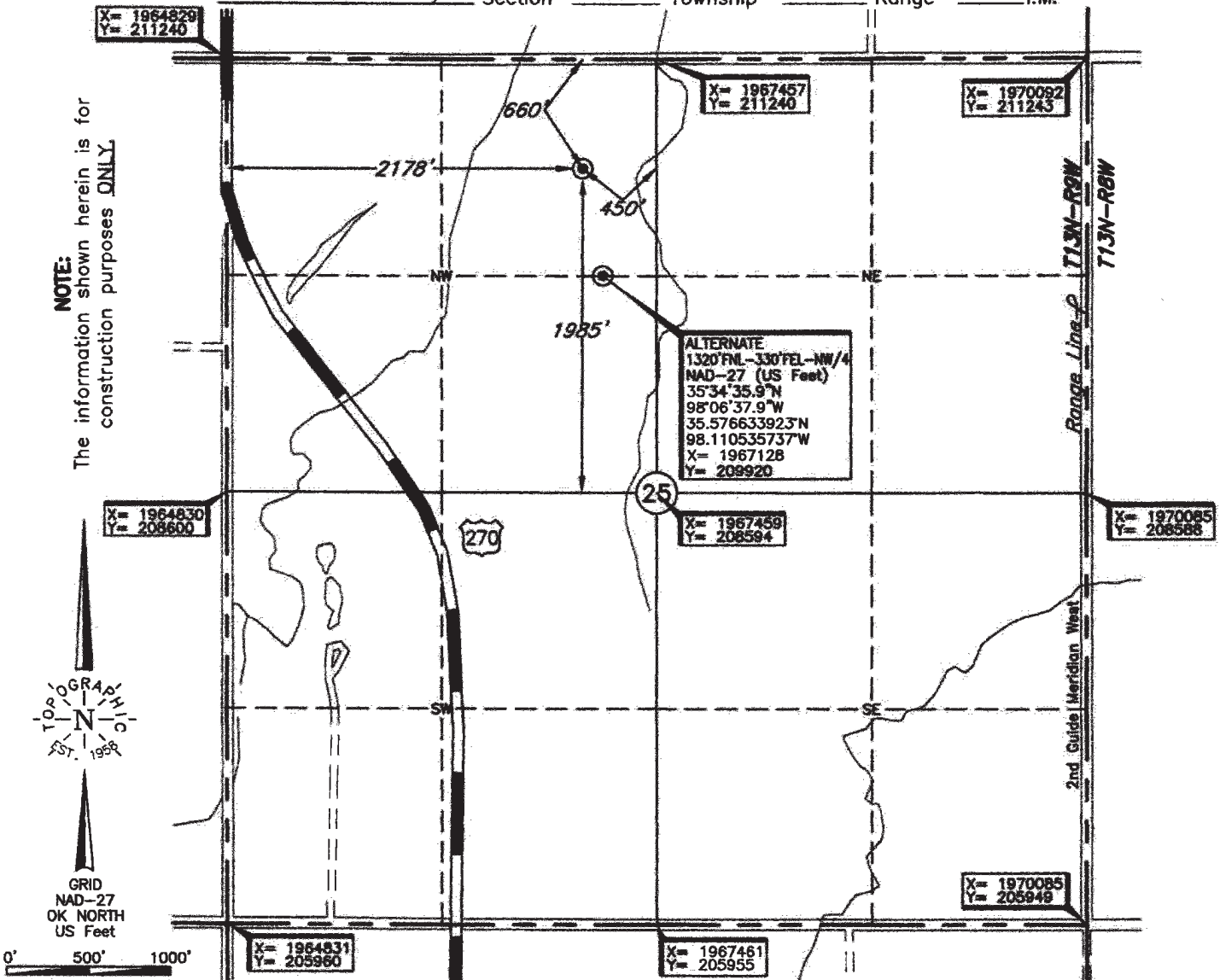
This permit does not address the right of entry or settlement of surface damages.  
The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.  
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

CANADIAN

County, Oklahoma

API 017-25004

660' FNL-450' FEL-NW/4 Section 25 Township 13N Range 9W I.M.



Operator: S & S BIG STAR

Lease Name: CALUMET

Well No.: #1

**ELEVATION:**  
1384' Gr. at Stake

Topography & Vegetation Loc. fell in level pasture. Alt fell in level pasture.

Good Drill Site? Yes, Alt./Yes

Reference Stakes or Alternate Location  
 Stakes Set Alt. 1320' FNL-330' FEL-NW/4, Elev. 1388'

Best Accessibility to Location From North off county road

Distance & Direction  
 from Hwy Jct or Town From the junction of I-40 and US Hwy. 270, go North ±3.5 miles to the NW Cor. of Sec. 25-T13N-R9W.

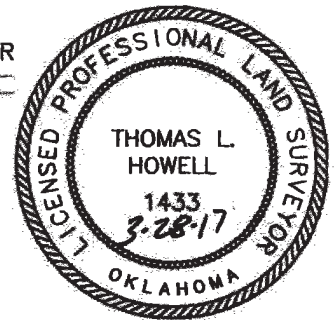
DATUM: NAD-27  
 LAT: 35°34'42.4\"N  
 LONG: 98°06'39.4\"W  
 LAT: 35.578446793\"N  
 LONG: 98.110943479\"W  
 STATE PLANE  
 COORDINATES: (US Feet)  
 ZONE: OK NORTH  
 X: 1967008  
 Y: 210580

Date of Drawing: Mar. 24, 2017  
 Invoice # 269883 Date Staked: Mar. 21, 2017 TR

**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