

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

API NUMBER: 125 23931

Approval Date: 11/13/2017

Expiration Date: 05/13/2018

Straight Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 33 Twp: 9N Rge: 2E

County: POTTAWATOMIE

SPOT LOCATION: ☐ NE ☐ SE ☐ SE ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 550 165

Lease Name: CLEO

Well No: 1

Well will be 165 feet from nearest unit or lease boundary.

Operator Name: LIBERTY OPERATING INC

Telephone: 4053296200

OTC/OCC Number: 15227 0

LIBERTY OPERATING INC
1827 ATCHISON DR
NORMAN, OK 73069-8225

WILLFORD & ALMA HOPPER, ET AL
24944 PATTERSON ROAD
TECUMSEH OK 74873

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

	Name	Depth		Name	Depth
1	EARLSBORO	4856	6	1ST WILCOX	5680
2	BARTLESVILLE	5000	7	2ND WILCOX	5720
3	MISENER-HUNTON	5090	8	MCLISH	5950
4	VIOLA	5400	9	OIL CREEK	6170
5	SIMPSON DOLOMITE	5524	10		

Spacing Orders: 243689
669850

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201706334

Special Orders:

Total Depth: 6300

Ground Elevation: 1092

Surface Casing: 410

Depth to base of Treatable Water-Bearing FM: 360

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Type of Pit System: ON SITE

Type of Mud System: WATER BASED

Chlorides Max: 8000 Average: 5000

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 located in a Hydrologically Sensitive Area.

Category of Pit: 1B

Liner required for Category: 1B

Pit Location is BED AQUIFER

Pit Location Formation: WELLINGTON

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

H. MIN. SOIL COMPACTED PIT, NOTIFY DISTRICT PRIOR TO TESTING SOIL PIT LINER

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>10/18/2017 - G57 - 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: OCCEWEB.COM/OG/OGFORMS.HTML; 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: FRACFOCUS.ORG</p>
PENDING CD - 201706334	<p>11/13/2017 - G57 - (80) E2 SE4 33-9N-7W SU X243689 ERLB, BRVL, MSHR, VIOL, SMPSD, WLCX2 X669850 WLCX1, MCLS, OLCK NCT 500' FSL, NCT 165' FEL NO OP. NAMED REC 10/11/17 (THOMAS)</p>
SPACING - 243689	<p>11/13/2017 - G57 - (80) E2 33-9N-2E SU NE/SW EST ERLB, BRVL, SMPSD EXT 145545 MSRH, VIOL, WLCX2</p>
SPACING - 669850	<p>11/13/2017 - G57 - (80) SE4 33-9N-2E SU NE/SW EXT 598064 WLCX1 EST MCLS, OLCK</p>
SURFACE LOCATION	<p>11/13/2017 - G57 - 550' FSL, 165' FEL SE4 33-9N-2E PER STAKING PLAT</p>

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 LS

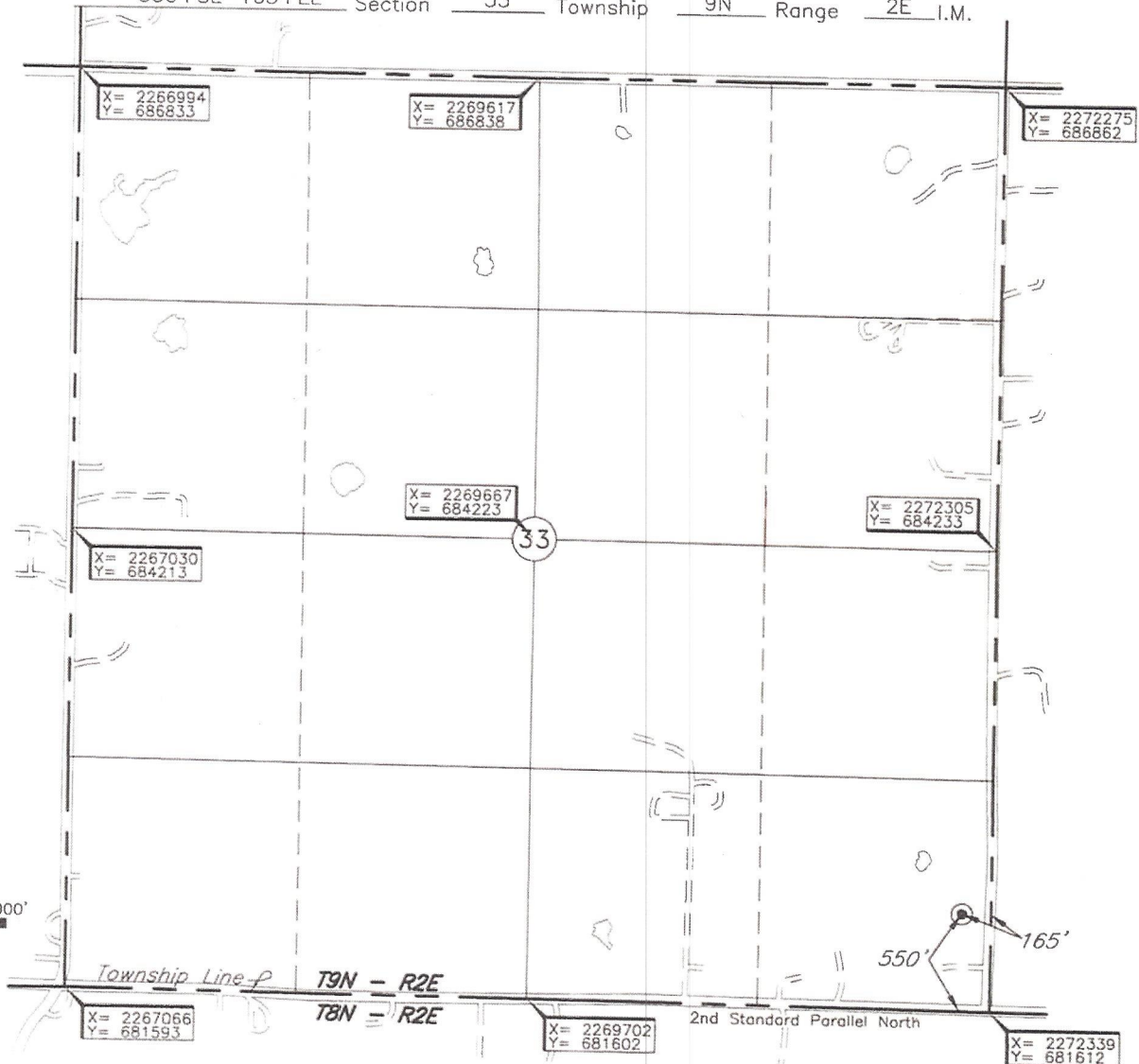
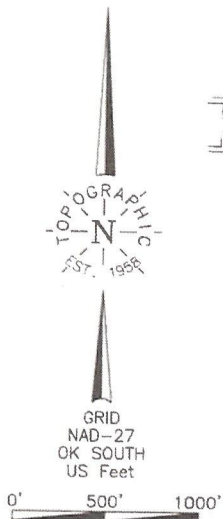
API 125 23931

POTTAWATOMIE

County, Oklahoma

550' FSL - 165' FEL Section 33 Township 9N Range 2E I.M.

NOTE:
The information shown herein is for construction purposes ONLY.



Operator: LIBERTY OPERATING

Lease Name: CLEO

Well No.: #1

ELEVATION:

1092' Gr. at Stake

Topography & Vegetation Loc. fell in brush, ±105' South of E-W fence

Good Drill Site? Yes

Reference Stakes or Alternate Location
Stakes Set None

Best Accessibility to Location From East off county road.

Distance & Direction

from Hwy Jct or Town From Pink, OK, go ±0.5 mile East on St. Hwy. 9, then ±4 miles

South, then ±1 mile East to the SE Cor. of Sec. 33-T9N-R2E.

DATUM: NAD-27
LAT: 35°12'15.9"N
LONG: 97°05'20.4"W
LAT: 35.204429654°N
LONG: 97.088997440°W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK SOUTH
X: 2272167
Y: 682161

Invoice # 281053

Date of Drawing: Sept. 15, 2017

Date Staked: Sept. 13, 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

