API NUMBER: 105 41264

Oil & Gas

Straight Hole

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

Approval Date: 07/22/2019
Expiration Date: 01/22/2021

PERMIT TO DRILL

ROCKY TOP ENERGY LLC PO BOX 902 NOWATA OK 74048-0902 Formation(s) OR 74048 Formation(s) OR 74	Formation(s) (Permit Valid for Listed Formations Only): Name ROCKY TOP ENERGY LLC PO BOX 902 NOWATA, OK 74048-0902 ROCKY TOP ENERGY LLC PO BOX 902 NOWATA, OK 74048-0902 ROCKY TOP ENERGY LLC PO BOX 902 NOWATA, OK 74048-0902 ROCKY TOP ENERGY LLC PO BOX 902 NOWATA, OK 74048-0902 ROCKY TOP ENERGY LLC PO BOX 902 NOWATA, OK 74048-0902 ROCKY TOP ENERGY LLC PO BOX 902 NOWATA, OK 74048-0902 ROCKY TOP ENERGY LLC PO BOX 902 NOWATA, OK 74048-0902 ROCKY TOP ENERGY LLC PO BOX 902 NOWATA, OK 74048-0902 ROCKY TOP ENERGY LLC PO BOX 902 NOWATA, OK 74048-0902 ROCKY TOP ENERGY LLC PO BOX 902 NOWATA, OK 74048-0902 ROCKY TOP ENERGY LLC PO BOX 902 NOWATA, OK 74048-0902 ROCKY TOP ENERGY LLC PO BOX 902 NOWATA, OK 74048-0902 ROCKY TOP ENERGY LLC PO BOX 902 NOWATA OK 74048-0902 ROCKY TOP ENERGY LLC PO BOX 902 NOWATA OK 74048-0902 ROCKY TOP ENERGY LLC PO BOX 902 NOWATA OK 74048-0902 ROCKY TOP ENERGY LLC PO BOX 902 NOWATA OK 74048-0902 ROCKY TOP ENERGY LLC PO BOX 902 NOWATA OK 74048-0902 ROCKY TOP ENERGY LLC PO BOX 902 NOWATA OK 74048-0902 ROCKY TOP ENERGY LLC CANDY CREEK RANCH RT 1 BOX 306 NOWATA OK 74048 ROCKY TOP ENERGY LLC PO BOX 902 NOWATA OK 74048-0902 ROCKY TOP ENERGY LLC CANDY CREEK RANCH RT 1 BOX 306 NOWATA OK 74048 ROCKY TOP ENERGY LLC CANDY CREEK RANCH RT 1 BOX 306 NOWATA OK 74048 ROCKY TOP ENERGY LLC CANDY CREEK RANCH RT 1 BOX 306 NOWATA OK 74048 ROCKY TOP ENERGY LLC CANDY CREEK RANCH RT 1 BOX 306 NOWATA OK 74048 ROCKY TOP ENERGY LLC CANDY CREEK RANCH RT 1 BOX 306 NOWATA OK 74048 ROCKY TOP ENERGY LLC CANDY CREEK RANCH RT 1 BOX 306 NOWATA OK 74048 ROCKY TOP ENERGY LLC CANDY CREEK RANCH RT 1 BOX 306 NOWATA OK 74048 ROCKY TOP ENERGY LLC CANDY CREEK RANCH RT 1 BOX 306 NOWATA OK 74048 ROCKY TOP ENERGY LLC CANDY CREEK RANCH RT 1 BOX 306 NOWATA OK 74048 ROCKY TOP ENERGY LLC CANDY CREEK RANCH RT 1 BOX 306 NOWATA OK 74048 ROCKY TOP ENERGY LIC CANDY CREEK RANCH RT 1 BOX 306 NOWATA OK 74048 ROCKY TOP ENERGY LIC CANDY CREEK RANCH RT 1 BOX 306 NOWATA OK 74048 ROCKY TOP ENERGY LIC CANDY CREEK RANCH RT 1 BOX			<u>. =</u>	<u> </u>		
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Notes:

Category

Description

ALTERNATE CASING

7/17/2019 - G71 - APPROVED; COPY OF CBL NEEDS TO BE SUBMITTED TO THE TECHNICAL STAFF IMMEDIATELY. A COMPLETION ATTEMPT, IN CASES WHERE THE PROTECTION OF THE TREATABLE WATER IS QUESTIONABLE, IS STRICTLY PROHIBITED. RULE 165: 10-3-4 (D)(4)(C)

HYDRAULIC FRACTURING 7/17/2019 - 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; 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 7/22/2019 - GB1 - FORMATION UNSPACED; 50-ACRE LEASE (THE SOUTH 1059' OF SE4 LESS

AND EXCEPT THE WEST 351' OF SE4 AND LES AND EXCEPT THE SOUTH 495' OF THE EAST

495' OF SE4)

SPACING

SECTION 1, TOWNSHIP 26 NORTH, RANGE 14 EAST NOWATA COUNTY, OKLAHOMA. (THIS DOES NOT CONSTITUTE A BOUNDARY SURVEY)

2289'± 351 1988' RD, SE/4 LESS 564 407 50 ACRES, M\L N 3 567' 232 900 1231 569 495 SE, LINE EAST 284 351' SOUTH LINE SE/4 1794'± E 018 RD. SOUTHEAST CORNER SE/4 SOUTHWEST CORNER SE/4

- DENOTES EXISTING OIL/GAS WELL
- M DENOTES PROPOSED OIL/GAS WELL

SCALE: 1" = 400'

50 ACRES, M/L LEASE DESCRIPTION:
THE SOUTH 1059 FEET OF THE SE/4 LESS AND EXCEPT THE WEST 351 FEET OF THE SE/4
AND LESS AND EXCEPT THE SOUTH 495 FEET OF THE EAST 495 FEET OF THE SE/4 OF
OKLAHOMA.

PROPOSED #1: SE/4 SW/4 SW/4 SE/4

165 FEET FROM THE SOUTH LINE AND 614 FEET FROM THE WEST LINE OF THE SE/4

ELEVATION= 873' LATITUDE= 36'45'27.2" LONGITUDE= 95'45'45.2"

PROPOSED #2: SW/4 SE/4 SW/4 SE/4

165 FEET FROM THE SOUTH LINE AND 944 FEET FROM THE WEST LINE OF THE SE/4

ELEVATION= 875' LATITUDE= 36*45'27.2" LONGITUDE= 95*45'41.1"

PROPOSED #3: SE/4 SE/4 SW/4 SE/4

165 FEET FROM THE SOUTH LINE AND 1274 FEET FROM THE WEST LINE OF THE SE/4

ELEVATION= 877' LATITUDE= 36'45'27.2" LONGITUDE= 95'45'37.1"

PROPOSED #4: NE/4 SE/4 SW/4 SE/4
570 FEET FROM THE SOUTH LINE AND 567 FEET FROM THE WEST LINE OF THE SE/4
ELEVATION= 871' LATITUDE= 36*45'31.2" LONGITUDE= 95*45'45.8"

PROPOSED #5: NE/4 SW/4 SW/4 SE/4

568 FEET FROM THE SOUTH LINE AND 1231 FEET FROM THE WEST LINE OF THE SE/4

ELEVATION= 875' LATITUDE= 36°45'31.2" LONGITUDE= 95°45'37.6"

KALEBJ. SURVE MCKINNON VE 1798 1798 4/4/2019

CERTIFICATE OF AUTHORIZATION NO. 2434 EXPIRES 6/30/20

BUCKLAND SURVEYING COMPANY, INC.

LAND SURVEYING SERVICES

1652 S.E. WASHINGTON BLVD.

BARTLESVILLE, OKLAHOMA 74006

(918) 335-5071