

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

API NUMBER: 017 24672

Approval Date: 01/15/2014
Expiration Date: 07/15/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 09 Twp: 13N Rge: 9W County: CANADIAN
SPOT LOCATION: NE SE SW SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 543 1565

Lease Name: HALEY 9-13-9 Well No: 5H Well will be 543 feet from nearest unit or lease boundary.
Operator Name: QEP ENERGY COMPANY Telephone: 9184888962 OTC/OCC Number: 4147 0

QEP ENERGY COMPANY
6100 S YALE AVE STE 900
TULSA, OK 74136-1935

MICHAEL R. CROWLY
8842 N. RED ROCK ROAD
CALUMET OK 73014

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

Name	Depth	Name	Depth
1 WOODFORD	11960	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 455168

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201308471
201308607

Special Orders:

Total Depth: 17200

Ground Elevation: 1402

Surface Casing: 300

Depth to base of Treatable Water-Bearing FM: 150

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: 80000 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 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

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

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? 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

HORIZONTAL HOLE 1

Sec 09 Twp 13N Rge 9W County CANADIAN

Spot Location of End Point: NW NW NE NE

Feet From: NORTH 1/4 Section Line: 1

Feet From: EAST 1/4 Section Line: 1290

Depth of Deviation: 11600

Radius of Turn: 475

Direction: 3

Total Length: 4854

Measured Total Depth: 17200

True Vertical Depth: 12162

End Point Location from Lease,
Unit, or Property Line: 1

Notes:

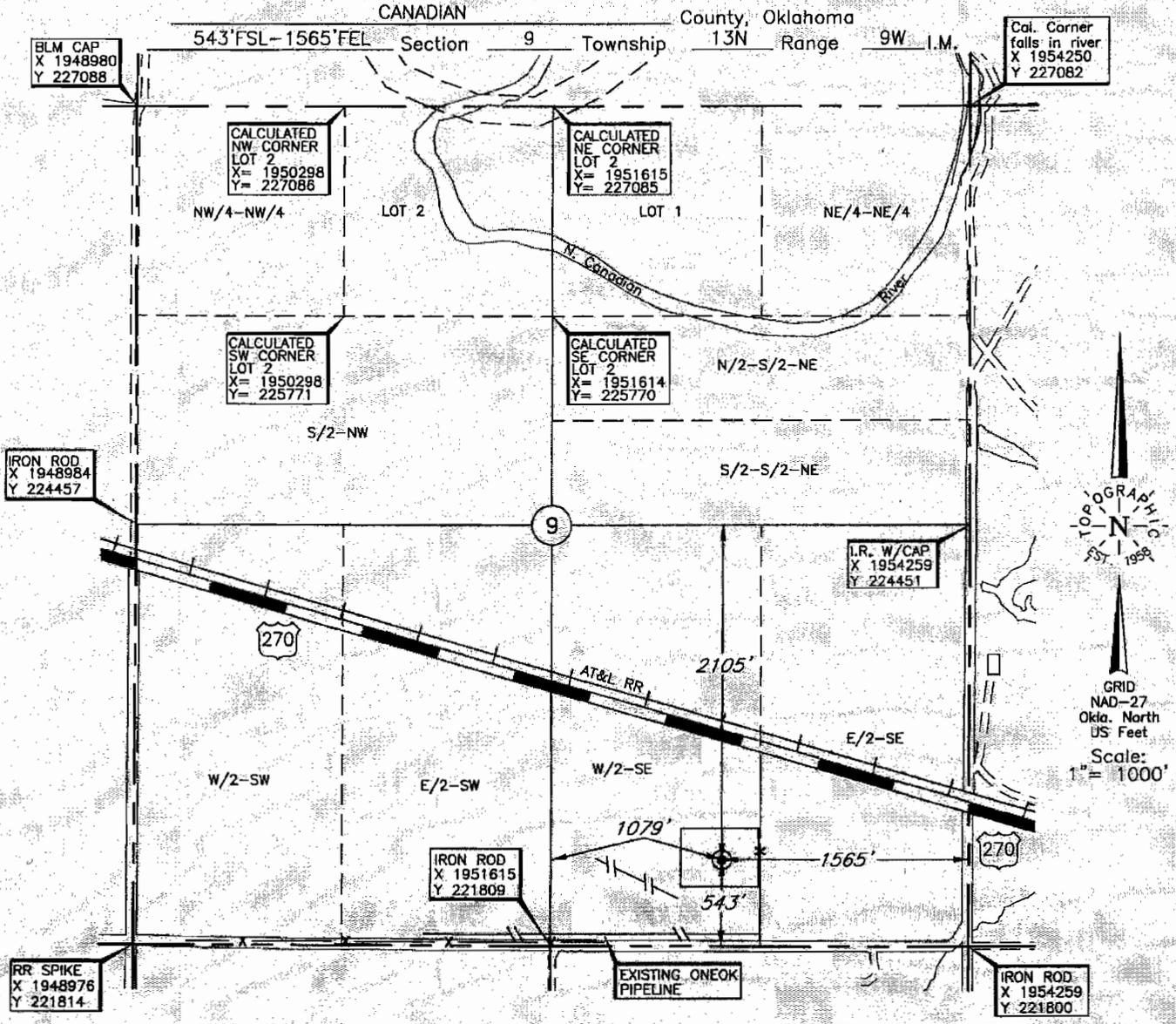
Category	Description
INCREASED DENSITY - 201308607	1/14/2014 - G75 - 9-13N-9W X455168 WDFD 5 WELLS NO OP. NAMED HEARING 1-21-2014
LOCATION EXCEPTION - 201308471	1/14/2014 - G75 - (I.O.) 9-13N-9W X455168 WDFD, OTHERS SHL NCT 100 FSL, NCT 1150 FEL FIRST PERF NCT 165 FSL, NCT 900 FEL LAST PERF NCT 165 FNL, NCT 900 FEL NO OP. NAMED REC 1-7-2014 (MCKEOWN)
MEMO	1/14/2014 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT
SPACING - 455168	1/14/2014 - G75 - (640) 9-13N-9W EXT OTHERS EXT 437237 WDFD, OTHERS

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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.

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

API 017-24672

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



Corner Coordinates are taken from points surveyed in the field.

Operator: QEP ENERGY CO.
 Lease Name: HALEY 9-13-9 Well No.: 5H
 Topography & Vegetation Loc. fell in wheat field. ±340' NE of pipeline & ±465' North of ONEOK pipeline.
 Good Drill Site? Yes Reference Stakes or Alternate Location Stakes Set None
 Best Accessibility to Location From South off county road.
 Distance & Direction From Calumet, OK, go ±2.1 mi. NW on US Hwy. 270, then ±0.20 mi. South to the SE Corner of Section 9-T13N-R9W.

ELEVATION:
1402' Gr. at Stake

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

DATUM: NAD-27
 LAT: 35°36'38.6"N
 LONG: 98°09'32.9"W
 STATE PLANE COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1952694
 Y: 222348

Date of Drawing: Dec. 9, 2013
 Invoice # 212484A Date Staked: Dec. 4, 2013 SM

CERTIFICATE:
 I, Thomas L. Howell a Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify that the above described well location was surveyed and staked on the ground as shown herein.
Thomas L. Howell
 Oklahoma Lic. No. 1433

