

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

API NUMBER: 017 25476

Approval Date: 06/10/2019

Expiration Date: 12/10/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 23 Twp: 14N Rge: 7W

County: CANADIAN

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 360 355

Lease Name: ROCK ISLAND

Well No: 1407 5H-14

Well will be 355 feet from nearest unit or lease boundary.

Operator Name: NEWFIELD EXPLORATION MID-CON INC

Telephone: 2812105100; 9188781

OTC/OCC Number: 20944 0

NEWFIELD EXPLORATION MID-CON INC
4 WATERWAY AVE STE 100
THE WOODLANDS, TX 77380-2764

GUSTAVE & PATRICIA KAY STEFFEN
P.O. BOX 268
ANTIGO WI 54409

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	8274	6	
2	WOODFORD	8762	7	
3	HUNTON	8862	8	
4			9	
5			10	

Spacing Orders: 587241

Location Exception Orders: 695357

Increased Density Orders:

695890

Pending CD Numbers: 201810845
201810844

Special Orders:

Total Depth: 14072

Ground Elevation: 1152

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 270

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: 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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: DUNCAN

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36157

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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: DUNCAN

HORIZONTAL HOLE 1

Sec 14 Twp 14N Rge 7W County CANADIAN

Spot Location of End Point: NW NE NW NE

Feet From: NORTH 1/4 Section Line: 85

Feet From: EAST 1/4 Section Line: 1714

Depth of Deviation: 8258

Radius of Turn: 544

Direction: 350

Total Length: 4960

Measured Total Depth: 14072

True Vertical Depth: 8862

End Point Location from Lease,
Unit, or Property Line: 85

Notes:

Category

Description

DEEP SURFACE CASING

2/12/2019 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

EXCEPTION TO RULE - 695890

5/28/2019 - G56 - (I.O.) 14-14N-7W
X165:10-3-28(C)(2)(B) MSSP, WDFD, HNTN MAY BE CLOSER THAN 600' TO PROPOSED WELLS
NEWFIELD EXPLOR. MID-CON. INC.
5/9/2019

HYDRAULIC FRACTURING

2/12/2019 - 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:
OCCWEB.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

LOCATION EXCEPTION - 695357

5/28/2019 - G56 - (I.O.) 14-14N-7W
X587241 MSSP, WDFD, HNTN
COMPL INT NCT 165' FNL, NCT 165' FSL, NCT 1320' FEL
NEWFIELD EXPLOR. MID-CON. INC.
4/30/2019

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.

017 25476 ROCK ISLAND 1407 5H-14

Category	Description
MEMO	2/12/2019 - G71 - PIT 1 & 2 - CLOSED SYSTEM = STEEL PITS (REQUIRED - UNCLE JOHN CREEK), WBM/CUTTINGS & OBM CUTTINGS CAPTURED IN STEEL HALF PITS, WBM CUTTINGS WILL BE SOIL FARMED, WBM & OBM CUTTINGS TRANSFERRED TO R360 587498 (31-12N-8W), CANADIAN CO, PIT 2 - OBM TO VENDOR
PENDING CD - 201810844	5/28/2019 - G56 - 14-14N-7W X587241 MSSP 6 WELLS NO OP NAMED REC 1/22/2019 (P. PORTER)
PENDING CD - 201810845	5/28/2019 - G56 - 14-14N-7W X587241 WDFD 7 WELLS NO OP NAMED REC 1/22/2019 (P. PORTER)
SPACING - 587241	5/28/2019 - G56 - (640)(HOR) 14-14N-7W VAC OTHER VAC 122201 MISS, HNTN, OTHER VAC 164357 WDFD, OTHERS EST MSSP, WDFD, HNTN, OTHERS COMPL INT (MSSP, HNTN) NCT 660' FB COMPL INT (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL

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TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA13800 Wireless Way, Okla. City, OK. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 LS

CANADIAN

County, Oklahoma

360'FNL-355'FEL Section 23 Township 14N Range 7W I.M.

PERMIT PLAT

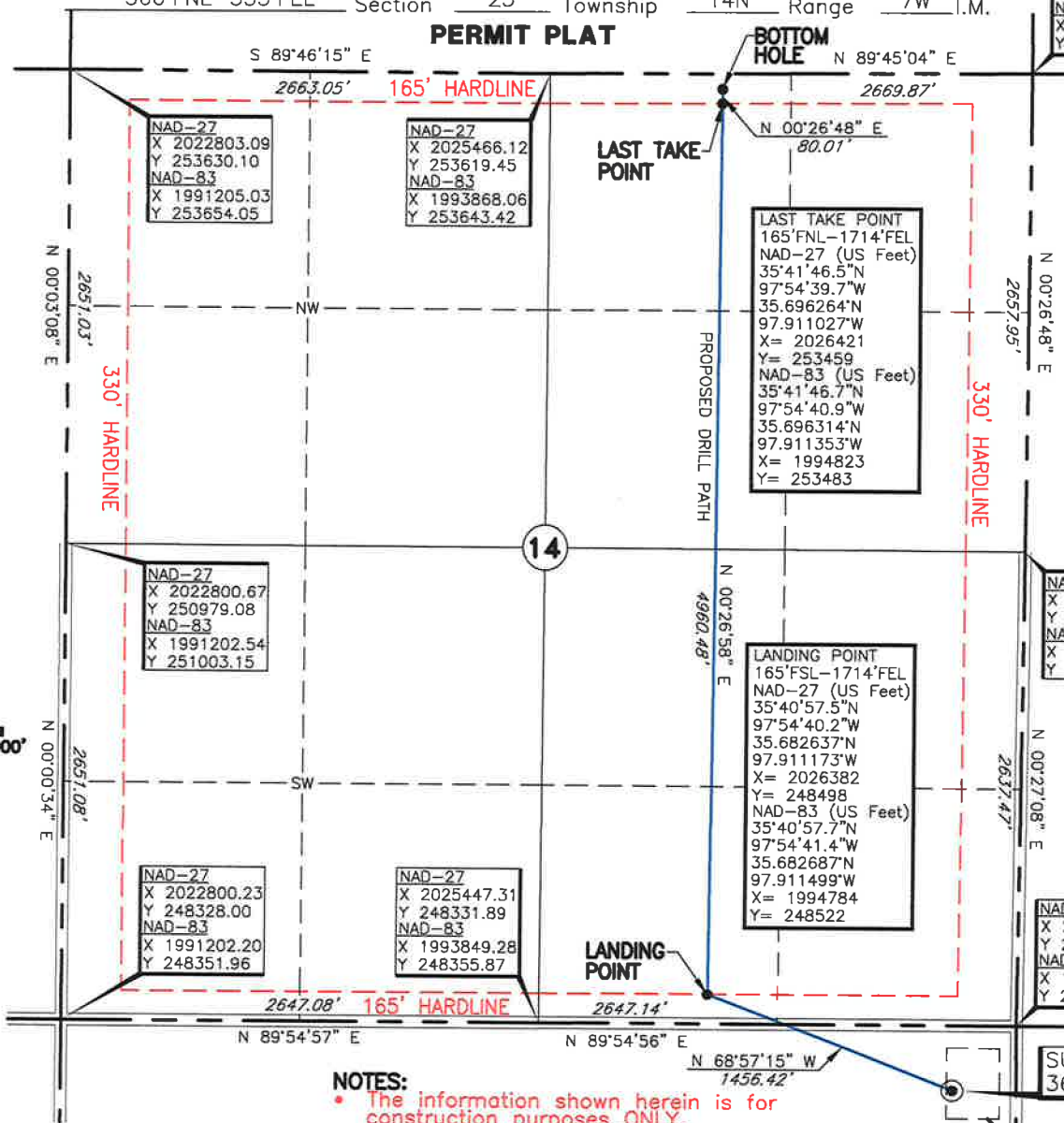
NAD-27
X 2028135.97
Y 253631.05
NAD-83
X 1996537.91
Y 253655.03

BOTTOM HOLE
85'FNL-1714'FEL
NAD-27 (US Feet)
35°41'47.3"N
97°54'39.7"W
35.696484°N
97.911024°W
X= 2026421
Y= 253539
NAD-83 (US Feet)
35°41'47.5"N
97°54'40.9"W
35.696533°N
97.911350°W
X= 1994823
Y= 253563

NAD-27
X 2028115.26
Y 250973.18
NAD-83
X 1996517.21
Y 250997.17

NAD-27
X 2028094.44
Y 248335.79
NAD-83
X 1996496.42
Y 248359.79

SURFACE LOCATION
360'FNL-355'FEL

**NOTES:**

- The information shown herein is for construction purposes ONLY.
- A portion of Section 23 lies within a flood zone.
- All bearings shown are Grid, NAD-27, Oklahoma North.

ELEVATION:

1152' Gr. at Level Pad (NGVD29)

DATUM: NAD-27
LAT: 35°40'52.3"N
LONG: 97°54'23.8"W
LAT: 35.681196°N
LONG: 97.906598°W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 2027741
Y: 247975

DATUM: NAD-83
LAT: 35°40'52.5"N
LONG: 97°54'24.9"W
LAT: 35.681247°N
LONG: 97.906924°W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1996143
Y: 247999

Operator: NEWFIELD EXPLORATION

Lease Name: ROCK ISLAND 1407

Well No.: 5H-14

Topography & Vegetation Loc. fell on level pad

Good Drill Site? Yes Reference Stakes or Alternate Location Stakes Set None

Best Accessibility to Location From North off county road

Distance & Direction

from Hwy Jct or Town From Okarche, OK., go ±4 miles East, then ±3 miles

South to the Northeast corner of Section 23-14N-7W.

Date of Drawing: Jan. 9, 2019 TR

Invoice # 310227D Date Staked: Dec. 21, 2018

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

