

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

API NUMBER: 017 25480

Approval Date: 06/10/2019

Expiration Date: 12/10/2020

Horizontal Hole
Oil & Gas
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 11 Twp: 14N Rge: 7W County: CANADIAN
SPOT LOCATION: ☐ NW ☐ SW ☐ SE ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 635 1510

Lease Name: ROCK ISLAND Well No: 1407 10H-14XX Well will be 635 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

ARNOLD & ARLENE L. ZUMMALLEN
18750 N. ALFADALE ROAD
OKARCHE OK 73762

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	8275	6	
2	MISSISSIPPI SOLID	8500	7	
3	WOODFORD	8770	8	
4	HUNTON	8870	9	
5			10	

Spacing Orders: 587241
637734
632037

Location Exception Orders: 695890

Increased Density Orders: 692431
692432
692433
692434

Pending CD Numbers: 201810845
201810844
201810850
201810851

Special Orders:

Total Depth: 22080 Ground Elevation: 1135

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 230

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36158
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 1 INFORMATION

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 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: BISON

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: BISON

HORIZONTAL HOLE 1

Sec 26 Twp 14N Rge 7W County CANADIAN

Spot Location of End Point: SE SE SW NW

Feet From: SOUTH 1/4 Section Line: 15

Feet From: WEST 1/4 Section Line: 1017

Depth of Deviation: 7874

Radius of Turn: 715

Direction: 182

Total Length: 13082

Measured Total Depth: 22080

True Vertical Depth: 8988

End Point Location from Lease,
Unit, or Property Line: 1017

Notes:

Category

Description

DEEP SURFACE CASING

2/15/2019 - 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

6/6/2019 - G56 - (I.O.) 14-14N-7W
X165:10-3-28(C)(2)(B) MSSP, WDFD, HNTN MAY BE CLOSER THAN 600' TO ROCK ISLAND 1H-14, VERNES 1-23, DANNEHL E-1, SCOTT 1H-23X, VOGT 1-26, JUSTIN 1-26, VERNES 1-26, VOGT 2-26, AND/OR PROPOSED WELLS
NEWFIELD EXPLOR. MID-CON. INC.
5/9/2019

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017 25480 ROCK ISLAND 1407 10H-14XX

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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.

Category	Description
HYDRAULIC FRACTURING	<p>2/15/2019 - G71 - 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: OCCWEB.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>
INCREASED DENSITY - 692431	<p>6/6/2019 - G56 - 23-14N-7W X637734 MSSP 6 WELLS NEWFIELD EXPLOR. MID-CON INC. 3/5/2019</p>
INCREASED DENSITY - 692432	<p>6/6/2019 - G56 - 23-14N-7W X637734 WDFD 7 WELLS NEWFIELD EXPLOR. MID-CON INC. 3/5/2019</p>
INCREASED DENSITY - 692433	<p>6/6/2019 - G56 - 26-14N-7W X632037 MSSSD 6 WELLS NEWFIELD EXPLOR. MID-CON. INC. 3/5/2019</p>
INCREASED DENSITY - 692434	<p>6/6/2019 - G56 - 26-14N-7W X632037 WDFD 7 WELLS NEWFIELD EXPLOR. MID-CON. INC. 3/5/2019</p>
MEMO	<p>2/15/2019 - G71 - PIT 1 & 2 - CLOSED SYSTEM = STEEL PITS (REQUIRED - UNLCE 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</p>
PENDING CD - 201810844	<p>6/6/2019 - G56 - 14-14N-7W X587241 MSSP 6 WELLS NO OP NAMED REC 1/22/2019 (P. PORTER)</p>
PENDING CD - 201810845	<p>6/6/2019 - G56 - 14-14N-7W X587241 WDFD 7 WELLS NO OP NAMED REC 1/22/2019 (P. PORTER)</p>
PENDING CD - 201810850	<p>6/6/2019 - G56 - (I.O.) 14, 23 & 26-14N-7W ESTABLISH MULTIUNIT HORIZONTAL WELL X587241 MSSP, WDFD, HNTN, OTHER 14-14N-7W X637734 MSSP, WDFD, HNTN 23-14N-7W X632037 MSSSD, WDFD, HNTN 26-14N-7W (HNTN IS AN ADJACENT COMMON SOURCE OF SUPPLY TO MSSP, WDFD 14, 23-14N-7W; MSSSD, WDFD 26-14N-7W) 40% 14-14N-7W 41% 23-14N-7W 19% 26-14N-7W NO OP NAMED REC 1/22/2019 (P. PORTER)</p>
PENDING CD - 201810851	<p>6/6/2019 - G56 - (I.O.) 14, 23 & 26-14N-7W X587241 MSSP, WDFD, HNTN, OTHER 14-14N-7W X637734 MSSP, WDFD, HNTN 23-14N-7W X632037 MSSSD, WDFD, HNTN 26-14N-7W COMPL INT (14-14N-7W) NCT 165' FNL, NCT 0' FSL, NCT 660' FWL COMPL INT (23-14N-7W) NCT 0' FNL, NCT 0' FSL, NCT 660' FWL COMPL INT (26-14N-7W) NCT 0' FNL, NCT 2640' FSL, NCT 660' FWL NO OP NAMED REC 1/22/2019 (P. PORTER)</p>

This permit does not address the right of entry or settlement of surface damages.

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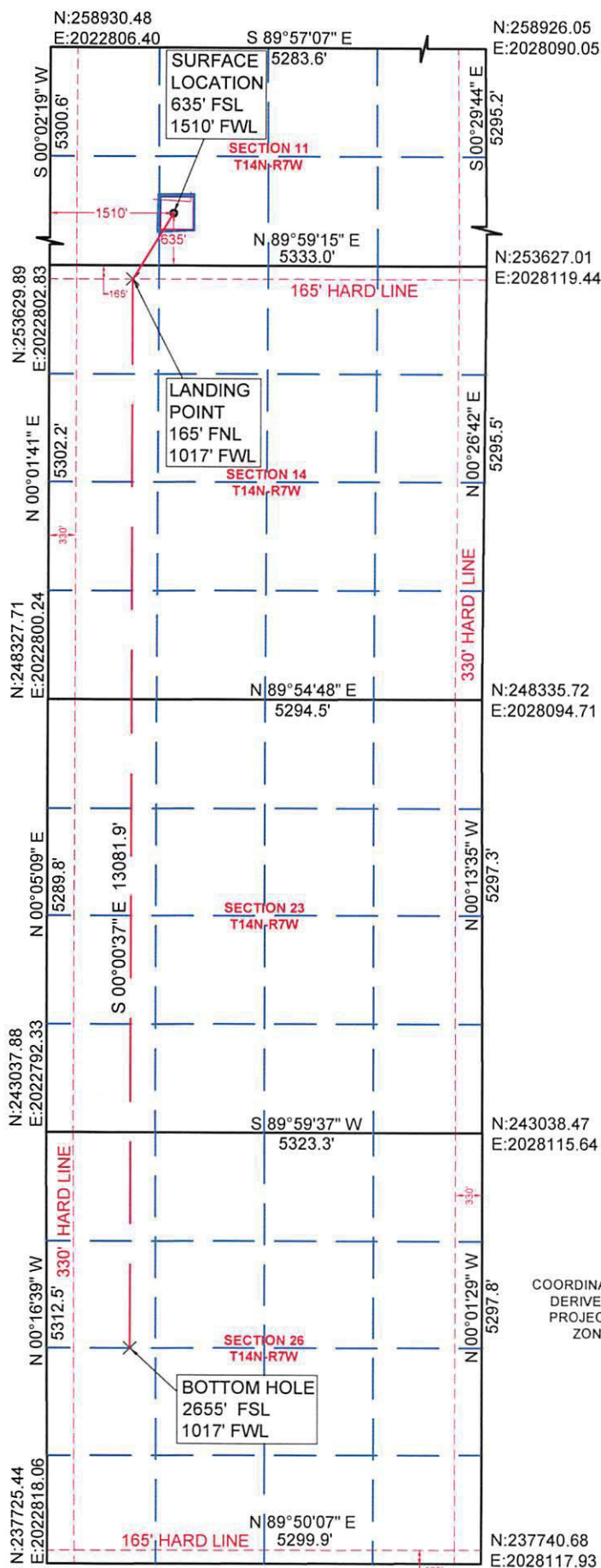
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

Category	Description
SPACING - 587241	6/6/2019 - 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
SPACING - 632037	6/6/2019 - G56 - (640)(HOR) 26-14N-7W EST MSSSD EXT 621416 WDFD, HNTN COMPL INT (MSSSD, HNTN) NLT 660' FB COMPL INT (WDFD) NLT 165' FNL/FSL, NCT 330' FEL/FWL (COEXIST WITH SP # 137094 MISS, HNTN)
SPACING - 637734	6/6/2019 - G56 - (640)(HOR) 23-14N-7W EST MSSP EXT 632037 WDFD, HNTN COMPL INT (MSSP, HNTN) NLT 660' FB COMPL INT (WDFD) NLT 165' FNL/FSL, NCT 330' FEL/FWL (COEXIST WITH SP # 122201 HNTN, MISS; # 142864 CSTR, WDFD)

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**PERMIT PLAT**

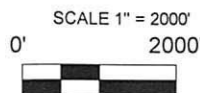
M & M Land Surveying, Inc.
 Phone (580) 226-0446
 520 E Street N.W.
 Ardmore, OK 73401
 Company Name:

NEWFIELD EXPLORATION MID-CONTINENT INC.

Lease Name: ROCK ISLAND 1407 10H-14XX
 Section 11 Township 14 N Range 7 W, I.B.M.
 County of Canadian, State of Oklahoma Good Location? YES GROUND
 Original Location: 635'FSL - 1510'FWL Elevation 1135'
 Distance & Direction From Nearest Town: 3.8 miles Southeast of Okarche

SURFACE LOCATION	LANDING POINT
DATUM: NAD27	DATUM: NAD27
LAT: 35° 41' 54.55"N	LAT: 35° 41' 46.65"N
LONG: 97° 55' 05.23"W	LONG: 97° 55' 11.22"W
LAT: 35.698487°N	LAT: 35.696291°N
LONG: 97.918119°W	LONG: 97.919783°W
Y (N): 254265.3	Y (N): 253465.28
X (E): 2024313.2	X (E): 2023819.89
DATUM: NAD83	DATUM: NAD83
LAT: 35° 41' 54.73"N	LAT: 35° 41' 46.82"N
LONG: 97° 55' 06.41"W	LONG: 97° 55' 12.40"W
LAT: 35.698535°N	LAT: 35.696338°N
LONG: 97.918448°W	LONG: 97.920111°W
Y (N): 254289.25	Y (N): 253489.23
X (E): 1992715.14	X (E): 1992221.83

LAST TAKE POINT	BOTTOM HOLE
DATUM: NAD27	DATUM: NAD27
LAT: N/A	LAT: 35° 39' 37.26"N
LONG: N/A	LONG: 97° 55' 11.32"W
LAT: N/A	LAT: 35.660351°N
LONG: N/A	LONG: 97.919811°W
Y (N): N/A	Y (N): 240383.3
X (E): N/A	X (E): 2023822.24
DATUM: NAD83	DATUM: NAD83
LAT: N/A	LAT: 35° 39' 37.44"N
LONG: N/A	LONG: 97° 55' 12.50"W
LAT: N/A	LAT: 35.660400°N
LONG: N/A	LONG: 97.920139°W
Y (N): N/A	Y (N): 240407.29
X (E): N/A	X (E): 1992224.27



COORDINATES ARE AS SHOWN ARE
 DERIVED FROM OPUS SOLUTION.
 PROJECTION: OKLAHOMA NORTH
 ZONE, LAMBERT CONFORMAL
 HORIZONTAL: NAD27
 VERTICAL: NAVD88
 GEOID MODEL: GEOID 99
 UNITS: US SURVEY FEET

This location has been staked according to the best official survey records available to us. The metrical data shown hereon is for permitting the well location and the section location may or may not be field verified. Please review this plat and notify us immediately of any discrepancy. The metrical data shown hereon is for permitting the well location and the section location may or may not be field verified.

CERTIFICATE:

I Aaron Morris a Registered Land Surveyor in the State Of Oklahoma, do hereby certify that the above described Well Location was surveyed and staked on the ground as shown and that said plat meets or exceeds the Oklahoma Minimum Technical Standards for the practice of land surveying as adopted by the Oklahoma State Board of Licensure for Professional Engineers and Land Surveyors.



[Signature] 2/12/2019
 Aaron L. Morris R.P.L.S. No.1477
 Bennett-Morris & Associates Land
 Surveying P.C. ~ C.A. No. 5795 (LS)
 Phone (580) 226-5108
 Fax (888) 662-7778
 1010 Northwest Boulevard
 Ardmore, OK 73401

SURVEY BY: M & M Land Surveying, Inc. ~ C.A. No. 3093 (LS)
 DRAWING BY: Bennett-Morris And Associates Land Surveying, P.C.
 © COPYRIGHT 2019 C.A. No. 5975 (LS) ~ Aaron L. Morris, RPLS
 PROJECT NUMBER: SITE VISIT: (Explanation and Date)
 19004 STAKING DATE: 11/01/2018
 SHEET: 6 OF 10 DRAWING DATE: 01/07/2019