

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

API NUMBER: 011 24082

Approval Date: 09/07/2018

Expiration Date: 03/07/2019

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 09 Twp: 16N Rge: 10W County: BLAINE

SPOT LOCATION: ☐ SW ☐ SE ☐ SE ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 305 2215

Lease Name: MARKS Well No: 1610 2H-4X Well will be 305 feet from nearest unit or lease boundary.

Operator Name: NEWFIELD EXPLORATION MID-CON INC

Telephone: 2816742521; 9188781

OTC/OCC Number: 20944 0

NEWFIELD EXPLORATION MID-CON INC
24 WATERWAY AVE STE 900
THE WOODLANDS, TX 77380-2764

ALAN BERNHARDT & JONNA BERNHARDT
79764 S. 2610 ROAD
WATONGA OK 73772

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	9675	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 641005
640333

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201806882
201806883
201806880
201806881
201806890

Special Orders:

Total Depth: 19805

Ground Elevation: 1276

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 40

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: 8000 Average: 5000

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

Is depth to top of ground water greater than 10ft below base of pit? Y

H. SEE MEMO

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: FLOWERPOT

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: FLOWERPOT

HORIZONTAL HOLE 1

Sec 04 Twp 16N Rge 10W County BLAINE

Spot Location of End Point: NW NW NE NW

Feet From: NORTH 1/4 Section Line: 85

Feet From: WEST 1/4 Section Line: 1441

Depth of Deviation: 9321

Radius of Turn: 477

Direction: 355

Total Length: 9735

Measured Total Depth: 19805

True Vertical Depth: 9675

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

Notes:

Category

Description

DEEP SURFACE CASING

8/24/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

8/24/2018 - 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

INTERMEDIATE CASING

8/24/2018 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES

MEMO

8/24/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM = STEEL PITS PER OPERATOR REQUEST; WBM, WBM & OBM CUTTINGS CAPTURED IN STEEL HALF PITS & TRANSFERRED TO R360 (ORDER #587498); PIT 2 - OBM TO VENDOR

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.

011 24082 MARKS 1610 2H-4X

Category	Description
PENDING CD - 201806880	9/5/2018 - G75 - (E.O.) 4-16N-10W X641005 MSSP 4 WELLS NEWFIELD EXPLOR. MID-CONT. INC. REC 8-31-2018 (M. PORTER)
PENDING CD - 201806881	9/5/2018 - G75 - (E.O.) 9-16N-10W X640333 MSSP 4 WELLS NEWFIELD EXPLOR. MID-CONT. INC. REC 8-31-2018 (M. PORTER)
PENDING CD - 201806882	9/5/2018 - G75 - (E.O.) 9 & 4-16N-10W EST MULTIUNIT HORIZONTAL WELL X640333 MSSP, OTHER 9-16N-10W X641005 MSSP, OTHER 4-16N-10W 50% 9-16N-10W 50% 4-16N-10W NEWFIELD EXPLOR. MID-CONT. INC. REC 8-31-2018 (M. PORTER)
PENDING CD - 201806883	9/5/2018 - G75 - (E.O.) 9 & 4-16N-10W X640333 MSSP 9-16N-10W X641005 MSSP 4-16N-10W SHL (9-16N-10W) SW4 COMPL. INT. (9-16N-10W) NCT 165' FSL, NCT 0' FNL, NCT 1320' FWL COMPL. INT. (4-16N-10W) NCT 0' FSL, NCT 165' FNL, NCT 1320' FWL NEWFIELD EXPLOR. MID-CONT. INC. REC 8-31-2018 (M. PORTER)
PENDING CD - 201806890	9/5/2018 - G75 - (E.O.) 9 & 4-16N-10W X165:10-3-28(C)(2)(B) MSSP (MARKS 1610 2H-4HX) MAY BE CLOSER THAN 600' TO EXISTING/PROPOSED WELLS NEWFIELD EXPLOR. MID-CONT. INC. REC 8-31-2018 (M. PORTER)
SPACING - 640333	9/5/2018 - G75 - (640)(HOR) 9-16N-10W EXT OTHER EST MSSP, OTHER POE TO BHL NCT 660' FB (COEXIST SP. ORDER #76988/221544 MCSTR)
SPACING - 641005	9/5/2018 - G75 - (640)(HOR) 4-16N-10W VAC 413142 MRMCM, OSGE VAC 76988 MCSTR VAC OTHER EST MSSP, OTHERS COMPL. INT. NCT 660' FB

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.

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: MARKS 1610 2H-4X
Section 9 Township 16 N Range 10 W , I.B.M, County of Blaine, State of Oklahoma
Elevation Good Location?
Original Location: 305'FSL - 2215'FWL 1276' GROUND YES
Distance & Direction From Nearest Town: 8.6 miles Northeast of Watonga

LAST TAKE POINT
165' FNL
1441' FWL

BOTTOM HOLE
85' FNL
1441' FWL

S 89°47'40" E

5299.7'

165' HARD LINE

GOV. LOT 4

GOV. LOT 3

GOV. LOT 2

GOV. LOT 1

N:327249.22
E:1917656.27

S 00°04'14" E

5157.5'

SECTION 4
T16N-R10W

330' HARD LINE

N 00°01'30" E

5146.3'

N:322091.70
E:1917662.61

10179.6'

S 89°54'56" E

5291.1'

N 00°04'40" W

330' HARD LINE

5276.5'

SECTION 9
T16N-R10W

N 00°01'33" E

5271.2'

N:316815.16
E:1917670.44

2215'

305'

165' HARD LINE

S 89°58'22" E

5280.9'

S 79°46'18" W

786.1'

SURFACE LOCATION
305' FSL
2215' FWL

LANDING POINT
165' FSL
1441' FWL

N:316812.65
E:1922951.31

330'

165'

ERED PRO

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.

I D. Harry McClintick 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.



D. Harry McClintick
PLS. No.1367

SURVEY BY: M & M Land Surveying, Inc. ~ C.A. No. 3093 (LS)	
DRAWING BY: Bennett-Morris And Associates Land Surveying, P.C.	
© COPYRIGHT 2018 C.A. No. 5975 (LS) ~ Aaron L. Morris, RPLS	
PROJECT NUMBER:	SITE VISIT: (Explanation and Date)
18356	STAKING DATE: 08/14/2018
SHEET: 6 OF 10	DRAWING DATE: 08/16/2018