

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

API NUMBER: 011 23713 A

Approval Date: 12/28/2016
Expiration Date: 06/28/2017

Horizontal Hole Oil & Gas

Amend reason: CHANGE WELL NUMBER

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 01 Twp: 16N Rge: 10W County: BLAINE
SPOT LOCATION: NW NE NE NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 310 2020

Lease Name: STARK Well No: 7H-1UMX Well will be 310 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
4 WATERWAY AVE STE 900
THE WOODLANDS, TX 77380-3197

SANFORD E. STARK
24175 E. 996 RD.
WEATHERFORD OK 73096

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	8388	6	
2 WOODFORD	9770	7	
3		8	
4		9	
5		10	

Spacing Orders: 646146
645785

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201605553
201605554
201605541
201605542

Special Orders:

Total Depth: 19665 Ground Elevation: 1240 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 250

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: No

PIT 1 INFORMATION

Type of Pit System: ON SITE
Type of Mud System: AIR

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: 4

Liner not required for Category: 4

Pit Location is NON HSA

Pit Location Formation: FLOWERPOT

Mud System Change to Water-Based or Oil-Based Mud Requires an Amended Intent (Form 1000).

Approved Method for disposal of Drilling Fluids:

- A. Evaporation/dewater and backfilling of reserve pit.
- B. Solidification of pit contents.

F. Haul to Commercial soil farming facility: Sec. 6 Twn. 2N Rng. 4W Cnty. 137 Order No: 617361

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: WATER BASED

Chlorides Max: 8000 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: FLOWERPOT

PIT 3 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 12 Twp 16N Rge 10W County BLAINE

Spot Location of End Point: SE SW SE SW

Feet From: SOUTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 1867

Depth of Deviation: 8884

Radius of Turn: 477

Direction: 185

Total Length: 10032

Measured Total Depth: 19665

True Vertical Depth: 9845

End Point Location from Lease,
Unit, or Property Line: 50

Notes:

Category

Description

DEEP SURFACE CASING

12/21/2016 - 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

12/21/2016 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK [HTTP://FRACFOCUS.ORG/](http://fracfocus.org/) WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE.

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011 23713 STARK 7H-1UMX

Category	Description
INTERMEDIATE CASING	12/21/2016 - 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	12/21/2016 - G71 - PIT 2 & 3 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, WBM & OBM CUTTINGS CAPTURED IN CONCRETE-LINED PIT, SOLIDIFIED, AND BURIED ON SITE; PIT 3 - OBM TO VENDOR
PENDING CD - 201605541	12/22/2016 - G75 - 1-16N-10W X646146 MSSP 7 WELLS NO OP. NAMED REC 12-20-2016 (JOHNSON)
PENDING CD - 201605542	12/22/2016 - G75 - 12-16N-10W X645785 MSSP 7 WELLS NO OP. NAMED REC 12-20-2016 (JOHNSON)
PENDING CD - 201605553	12/22/2016 - G75 - (I.O.) 1 & 12-16N-10W EST MULTIUNIT HORIZONTAL WELL X646146 MSSP, WDFD 1-16N-10W X645785 MSSP, WDFD 12-16N-10W (WDFD ASSOCIATED COMMON SOURCE OF SUPPLY TO MSSP) 50% 1-16N-10W 50% 12-16N-10W NO OP. NAMED REC 12-20-2016 (JOHNSON)
PENDING CD - 201605554	12/22/2016 - G75 - (I.O.) 1 & 12-16N-10W X646146 MSSP, WDFD 1-16N-10W X645785 MSSP, WDFD 12-16N-10W X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO ANOTHER WELL BORE SHL (12-16N-10W) SW4 ** COMPL. INT (12-16N-10W) NCT 165' FSL, NCT 0' FNL, NCT 850' FWL ++ COMPL. INT. (1-16N-10W) NCT 0' FSL, NCT 165' FNL, NCT 850' FWL ++ NO OP. NAMED REC 12-20-2016 (JOHNSON)
	** ITD HAS SHL NW4 1-16N-10W; TO BE CORRECTED AT HEARING FOR FINAL ORDER LOCATION EXCEPTION PER OPERATOR
	++ ITD HAS LATERAL DRILLED IN OPPOSITE DIRECTION; TO BE CORRECTED AT HEARING FOR FINAL ORDER LOCATION EXCEPTION PER OPERATOR
SPACING - 645785	12/22/2016 - G75 - (640)(HOR) 12-16N-10W EST MSSP, WDFD, OTHER POE TO BHL (MSSP) NCT 660' FB POE TO BHL (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL (COEXIST SP. ORDER # 151344 MSSNC, MNNG, MSSSD)
SPACING - 646146	12/22/2016 - G75 - (640)(HOR) 1-16N-10W EST MSSP, WDFD, OTHER POE TO BHL (MSSP) NCT 660' FB POE TO BHL (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL (COEXIST SP. ORDER # 151344 MSSNC, MNNG, MSSSD; COEXIST WDFD LEASE BASIS)

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.