API NUMBER: 051 24045

Oil & Gas

Horizontal Hole

Name:

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

Approval Date: 06/23/2016
Expiration Date: 12/23/2016

430 feet from nearest unit or lease boundary.

20944 0

OTC/OCC Number:

PERMIT TO DRILL

| WELL LOCATION: | Sec: 10 | Twp: 3N | Rge: 5W | County | : GRA | DY | | | |
|----------------|----------|-------------|-----------|--------------------|---------|--------|------|------------------|-----|
| SPOT LOCATION: | SE NE | NW | NE | FEET FROM QUARTER: | FROM | NORTH | FROM | EAST | |
| | | | | SECTION LINES: | | 430 | | 1375 | |
| Lease Name: | AULD | | | We | ell No: | 2H-3 | | | |
| Operator | NEWFIELD | EXPLORATION | ON MID-CO | N INC | | Teleph | one: | 9188781290; 9188 | 781 |

NEWFIELD EXPLORATION MID-CON INC 1 WILLIAMS CTR STE 1900

TULSA, OK 74172-0162

BETH ANN SEXTON AND JO ELLEN COLLIN 4221 W. BROADWAY AVE.

Well will be

BLOOMINGTON IN 47404

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

| | Name | Depth | Name | Dept | h | |
|-----------------|----------|-----------------------------------|------|----------------------------------|---|--|
| 1 | SPRINGER | 13361 6 | | | | |
| 2 | | 7 | | | | |
| 3 | | 8 | | | | |
| 4 | | 9 | | | | |
| 5 | | 10 | | | | |
| Spacing Orders: | 185688 | Location Exception Orders: 652454 | | Increased Density Orders: 652107 | | |
| | 185087 | | | | | |
| Bonding CD Num | hore | | | Special Orders | | |

Pending CD Numbers: Special Orders:

Total Depth: 18759 Ground Elevation: 1269 Surface Casing: 620 Depth to base of Treatable Water-Bearing FM: 570

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

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: ON SITE

A. Evaporation/dewater and backfilling of reserve pit.

Type of Mud System: AIR B. Solidification of pit contents.

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

Within 1 mile of municipal water well? N

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

Wellhead Protection Area? N

Wellhead Protection Area? N

H. SEE MEMO

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: CHICKASHA

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

PIT 2 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: CHICKASHA

PIT 3 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: OIL BASED
Chlorides Max: 300000 Average: 150000

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?

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: CHICKASHA

HORIZONTAL HOLE 1

Sec 03 Twp 3N Rge 5W County **GRADY** Spot Location of End Point: NW NF NE NE Feet From: NORTH 1/4 Section Line: 50 Feet From: EAST 1/4 Section Line: 440

Depth of Deviation: 13205
Radius of Turn: 740
Direction: 360

Total Length: 4391

Total Longin. 4001

Measured Total Depth: 18759

True Vertical Depth: 13361

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

Notes:

Category Description

HYDRAULIC FRACTURING

6/22/2016 - 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/ 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.

Category Description

INCREASED DENSITY - 652107 6/23/2016 - G60 - (I.O.) 3-3N-5W

X185087/185688 SPRG

1 WELL

NEWFIELD EXPLORATION MID-CONTINENT INC.

4-26-16

LOCATION EXCEPTION - 652454 6/23/2016 - G60 - (I.O.) 3-3N-5W

X185087/185688 SPRG

SHL NCT 150' FNL, NCT 330' FEL (3-3N-5W) **

COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 330' FEL NEWFIELD EXPLORATION MID-CONTINENT INC.

5-6-16

**ITD IS 430' FNL, 1375' FEL (10-3N-5W) WILL BE CORRECTED AT HEARING FOR FINAL ORDER

LOCATION EXCEPTION PER OPERATOR

MEMO 6/22/2016 - G71 - PITS 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

SPACING - 185087 6/23/2016 - G60 - (640) 3-3N-5W

EXT OTHERS

EST SPRG (SEPARATE & DISTINCT FROM SPRDP OF ORDER # 163830/171539), OTHERS

SPACING - 185688 6/23/2016 - G60 - NPT 185087 CHANGING PARAGRAPH 1 OF ORDER FROM MCCLAIN CO. TO

GRADY CO

API: 051-24045

Permit Plat M & M Land Surveying, Inc. 520 "E" Street NW. Ardmore, OK. 73401

| | | Office 580 | -226-0446 | Mobile 58 | 0-221-4999 | Fax ! | 580-22 | 6-7158 | |
|-----------------|-------------------|---------------------|----------------------------|-----------|---|------------------------------------|-------------------|--------------|---|
| Company | | Newfield Exploratio | | | | | | 1 #2H-3 | Oklahama |
| Section | 10 | Township | 3 North | Range | 5 West | | ounty | Grady | Oklahoma |
| | | Surface Location | | | | | evation | | |
| | | ALL | SECTION C | ORNER CO | JORDINAT | es are | NAD 2 | <i>37</i> | |
| y=522 x=2,08 | 2,402' 83,842' | | S 89°52'45" | E | | y=522,4 x=2,089 | | | ۵- |
| 1317.86 | LOT 4 | LOT 3 | 529 1.51' | Bo 50 | oposed optom Hole of FNL of FEL | | 1317.68 | | Bearings are based on Geodetic North. Unless otherwise noted |
| 1324.47 | | | | | | | 1322. | | Scale: 1" = 1000' Invoice #16070 Date 3/3/15 |
| 132 | | | Section 3 T3N R5W | | | 5070.13' | _{>} % | N 00°00'38" | Coordinates were derived from GPS RTK methods |
| 2 2 | | | | | | | W | W "83 | and are only accurate within ±10 feet Location GPS NAD 27 Oklahoma South Surface Location Latitude: 34.75280° Longitude: 97.70780° |
| 2648.94 | = === | | | | | i | 2644. | | Y= 516,687' X = 2,087,774' |
| y=517, | 112' | | | La 16 | oposed nding Point 5' FSL 0' FEL | | 60' | y=517,122' | Location NAD 83 Surface Location Latitude: 34.75287° Longitude: 97.70811° Y= 516,729' X = 2,056,179' |
| x=2,08 | | | 89°5 <mark>7'06" 1</mark> | Ε | | ·OA D | (| x=2,089,148' | |
| | | | 5306.04' Surface | Location— | N 57°31 | 9.65 | 200 | ñ | |

D. Harry McCantick, R.P.L.S. # 1367, CA # 3093 This location has been staked according to the best official survey records available to us, but its accuracy is not guaranteed. Please review this plat and notify us immediately of any discrepancy.

Section 10 T3N R5W



OKLAHOMA

Commissioner

Bob Anthony

Corporation Commission

P.O. BOX 52000 OKLAHOMA CITY OKLAHOMA 73152-2000 255 Jim Thorpe Building Telephone: (405)521-2302 FAX: (405)521-3099

OIL & GAS CONSERVATION DIVISION



Lori Wrotenbery, Director

November 15, 2010

J. Blake Scott Scott Environmental Services, Inc. P.O. Box 6215 Longview, Texas 75608

RE: Requests for variances to liner requirements for pits used to contain oil-based cuttings.

Dear Mr. Scott:

This is in response to your inquiry concerning the procedure by which operators of wells in the State of Oklahoma regulated by the Commission's Oil and Gas Conservation Division may request variances to liner requirements for pits used to contain oil-based cuttings (OBC). OAC 165:10-7-16(b)(1)(B)(iv) provides that any pit used to contain oil-based drilling fluids, cuttings and/or completion/fracture/workover fluids shall be required to have a geomembrane liner. OAC 165:10-7-16(b)(5) states that any variance from the liner requirements of OAC 165:10-7-16 may be granted by the Manager of the Technical Services Department after receipt of a written request and supporting documentation required by the Department. Operators must submit written requests for variances to liner requirements for pits used to contain OBC to the Commission's Technical Services Department (TSD) Manager as attachments to initial or amended OCC Form 1000 Applications to Drill, Recomplete or Reenter.

The TSD Manager will require operators to submit documentation in support of requests for variances. Variances to liner requirements for pits containing OBC are not effective until granted by the TSD Manager. If operators requesting variances to liner requirements for pits containing OBC fail to submit acceptable documentation to the TSD Manager, or if such variance requests are denied, then operators are required to deposit the solidified OBC in pits containing geomembrane liners and close the pits as required by OAC 165:10-7-16, or otherwise dispose of the solidified OBC in accordance with Commission rules.

If the processes employed by your company and any other entity demonstrate through the submission of laboratory analyses, chain of custody forms and any other documentation required by the TSD Manager that the solidified OBC for which a variance from the pit liner requirements is sought meet acceptable criteria, then the TSD Manager could approve such variance requests submitted by operators.

Your company has demonstrated in three separate trials to date that solidified OBC for which variances were sought by operators have met the criteria of the Technical Services Department for burying such materials in pits with no geomembrane liners.

If you have any questions concerning the foregoing, please contact me at (405) 522-2763.

Sincerely

Tim Baker

ar and the second

Manager, Pollution Abatement Department Oklahoma Corporation Commission

Cc: Lori Wrotenbery, Ron Dunkin, Wayne Wright, Grant Ellis, Tony Cupp, Terry Grooms, Gayland Darity, Sally Shipley, Keith Thomas, Susan Conrad, Jim Hamilton, Connie Moore

g raidhan all no aig lei Shrin si el mar challan i neamh-reamh-ri daol airte a leichean all aiste le

API: 051-24045



Newfield Exploration Mid-Continent, Inc. OOrOne Williams Center; Suite 1900 Tulsa. OK 741729

> 918-582-2690 Fax: 918-732-1787

June 22, 2016

Oklahoma Corporation Commission Oil & Gas Conservation Division P.O. Box 52000-2000 Oklahoma City, Oklahoma 73152-2000

ATTN: Manager of the Technical Services Department

RE: Liner Variance Request

Auld 2H-3

Sec 10-03N-05W, Grady County

Dear Madam/Sirs:

We are requesting a variance to the liner requirements for the burial of oil-based cuttings (OBC) as stated in rules of the Oklahoma Corporation Commission (OCC). We intend to bury the OBC from the above mentioned well using Scott Environmental Services Inc.'s (SESI) stabilization and solidification process, DuroSM. Specifically, the request for a variance is because the chosen process cannot be practically carried out under current Oklahoma rules due to the rules stating that OBC burial requires a geomembrane liner but the rules do not allow stirring within geomembrane lined pits.

In a letter dated November 15, 2010, Mr. Tim Baker confirmed that use of a Duro[™] process had met the requirements of the Commission. It is requested that a variance be approved for this well site, provided that the following conditions are met:

- 1. A soil liner may be used instead of a geomembrane liner if the unconfined compressive strength (UCS) of the DuroSM material is at least 70 pounds per square inch (psi), or 2. No liner is required if the DuroSM material meets all of the following conditions:
- - a. A permeability of not more than 1 x 10⁻⁶ cm/sec:
 - b. A UCS of at least 35 psi; and
 - c. Concentrations in a leachate of the DuroSM material according to EPA's SPLP procedure do not exceed the following values for the constituents named:
 - i. Total Petroleum Hydrocarbons, 100 mg/l;
 - ii. pH, 12.49 SU, plus a lower limit no less than 6;
 - iii. Arsenic, 5.00 mg/l;
 - iv. Barium, 100 mg/l;
 - v. Cadmium, 1.00 mg/l;
 - vi. Chromium, 5.00 mg/l;
 - vii. Lead, 5.00 mg/l;
 - viii. Mercury, 0.20 mg/l;

- ix. Selenium, 1.00 mg/l;
- x. Silver, 5.00 mg/l;
- xi. Zinc, 5.00 mg/l; and
- xii. Benzene, 0.5 mg/l.

The permeability value specified in item 2(a) is the same as that required for a standard soil liner, so that in effect the DuroSM processed material becomes its own liner but is even more effective, because the low permeability extends throughout the bulk of the DuroSM material.

Conformance with the specified criteria is determined on laboratory samples made with a representative sample of the waste to be subjected to the DuroSM process. The results of the testing will be provided to the Pollution Abatement Department of the OCC.

Your prompt attention to this matter is appreciated.

Sincerely,

Daniele Burris

Regulatory Principal

Daniel Burris