

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

API NUMBER: 073 25434

Approval Date: 11/23/2016

Expiration Date: 05/23/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 01 Twp: 16N Rge: 7W

County: KINGFISHER

SPOT LOCATION: SW SE SE SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 270 600

Lease Name: GERALDINE

Well No: 1H-36X

Well will be 270 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 77380-3197

GERALDINE MUEGGENBORG
1313 SOUTH MAIN STREET
KINGFISHER OK 73750

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	6305	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 655949

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201604322
201604325
201604324

Special Orders:

Total Depth: 18042

Ground Elevation: 1062

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 150

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 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: SALT PLAINS

H. SEE MEMO

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

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: SALT PLAINS

HORIZONTAL HOLE 1

Sec 36 Twp 17N Rge 7W County KINGFISHER

Spot Location of End Point: NW NE NE NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 360

Depth of Deviation: 6966

Radius of Turn: 750

Direction: 359

Total Length: 9898

Measured Total Depth: 18042

True Vertical Depth: 7375

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

Additional Surface Owner	Address	City, State, Zip
GARY A. MUEGGENBORG	1313 S. MAIN STREET	KINGFISHER, OK 73750

Notes:

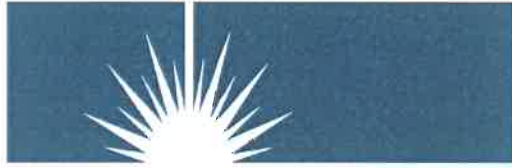
Category	Description
DEEP SURFACE CASING	10/21/2016 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING
HYDRAULIC FRACTURING	10/21/2016 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK HTTP://FRACFOCUS.ORG/ 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.
MEMO	10/21/2016 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, WBM & OBM CUTTINGS CAPTURED IN CONCRETE-LINED PIT, SOLIDIFIED, AND BURIED ON SITE; PIT 2 - OBM TO VENDOR
PENDING CD - 201604322	10/21/2016 - G75 - (640)(HOR) 36-17N-7W EXT 649078 MSSP, OTHERS COMPL. INT. NCT 660' FB (COEXIST SP. ORDER # 97930 MNNG N2, SW4, W2 SE4 & ORDER # 105909 MISS) REC 11-22-2016 (JOHNSON)

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.

Category	Description
PENDING CD - 201604324	10/21/2016 - G75 - (I.O.) 1-16N-7W & 36-17N-7W EST MULTIUNIT HORIZONTAL WELL X655949 MSSP 1-16N-7W X201604322 MSSP 36-17N-7W 50% 1-16N-7W 50% 36-17N-7W NEWFIELD EXPLOR. MID-CONT. INC. REC 11-22-2016 (JOHNSON)
PENDING CD - 201604325	10/21/2016 - G75 - (I.O.) 1-16N-7W & 36-17N-7W X655949 MSSP 1-16N-7W X201604322 MSSP 36-17N-7W X165:10-3-28(C)(2)(B) MSSP (GERALDINE 1H-36X MAY BE CLOSER THAN 600' TO MITCHELL 1 & MCCANDLESS 1) SHL (1-16N-7W) NCT 150' FSL, NCT 330' FEL COMPL. INT. (1-16N-7W) NCT 165' FSL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (36-17N-7W) NCT 0' FSL, NCT 165' FNL, NCT 330' FEL NEWFIELD EXPLOR. MID-CONT. INC. REC 11-22-2016 (JOHNSON)
SPACING - 655949	10/21/2016 - G75 - (640)(HOR) 1-16N-7W EXT OTHER EXT 647837 MSSP COMPL. INT. NLT 660' FB (COEXIST SP. ORDER # 114334 MSSLM & ORDER # 114465 MNNG)

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.

NEWFIELD



Newfield Exploration Mid-Continent Inc.

24 Water Way, Suite 900
The Woodlands, TX 77380

Regulatory Department
PHONE: 281-674-2521
FAX: 346-224-7026

October 13, 2016

API 073-25434

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

RE: Geraldine 1H-36X
Sec 1-16N-7W
Kingfisher County, OK

Dear Sir or Madam

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 DuroSM 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 1×10^{-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. Chloride, 1750 mg/l;
 - iii. pH, 12.49 SU, plus a lower limit no less than 6;
 - iv. Arsenic, 5.00 mg/l;
 - v. Barium, 100 mg/l;

- vi. Cadmium, 1.00 mg/l;
- vii. Chromium, 5.00 mg/l;
- viii. Lead, 5.00 mg/l;
- ix. Mercury, 0.20 mg/l;
- x. Selenium, 1.00 mg/l;
- xi. Silver, 5.00 mg/l;
- xii. Zinc, 5.00 mg/l; and
- xiii. Benzene, 0.5 mg/l.

The permeability value specified is the same as that required for a standard soil liner, so that in effect the DuroSM 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.

Respectfully,

Newfield Exploration, Mid-Continent Inc.



Evelyn P. Smith
Sr. Regulatory Specialists

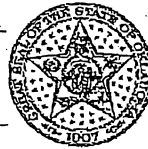
OKLAHOMA

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

API 073-25434

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.

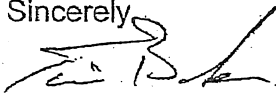
The TSD Manager will require operators to submit documentation in support of requests for variances. Variances to liner requirements for pits containing OBC are not effective until granted by the TSD Manager. If operators requesting variances to liner requirements for pits containing OBC fail to submit 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
Manager, Pollution Abatement Department
Oklahoma Corporation Commission

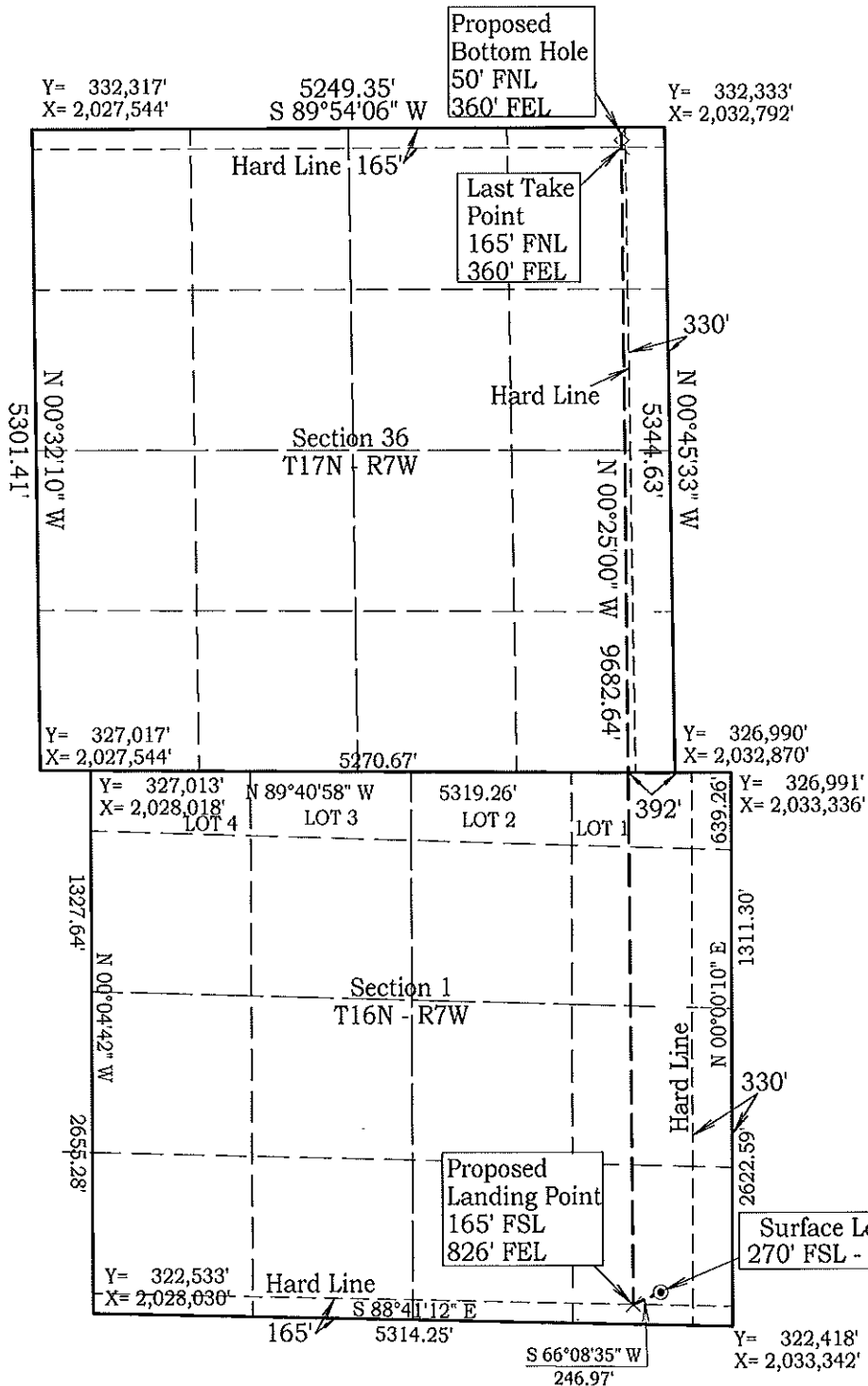
Cc: Lori Wrotenbery, Ron Dunkin, Wayne Wright, Grant Ellis, Tony Cupp, Terry Grooms,
Gayland Darity, Sally Shipley, Keith Thomas, Susan Conrad, Jim Hamilton, Connie Moore

Permit Plat
M & M Land Surveying, Inc.
 520 "E" Street NW. Ardmore, OK 73401
 Office 580-226-0446 Mobile 580-221-4999

API 073-25434

Company Name: Newfield Exploration Mid-Continent, Inc. Lease Name: Geraldine #1H-36x
 Section 1 Township 16 North Range 7 West County Kingfisher Oklahoma
 Surface Location 270' FSL - 600' FEL Elevation 1062'

ALL SECTION CORNER COORDINATES ARE NAD 27



Scale: 1" = 1500'
 Invoice #16336
 Date 9/19/16

Coordinates were derived from GPS RTK methods and are only accurate within ±10 feet

Location GPS NAD 27
 Oklahoma North
 Surface Location
 Latitude: 35.88647°
 Longitude: 97.88947°
 Y = 322,701'
 X = 2,032,742'

Location NAD 83
 Surface Location
 Latitude: 35.88652°
 Longitude: 97.88980°
 Y = 322,725'
 X = 2,001,143'

D. Harry McClintick 09/13/16
 D. Harry McClintick, 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.

