

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

API NUMBER: 137 27158

Approval Date: 01/15/2014

Expiration Date: 07/15/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 11 Twp: 2N Rge: 4W County: STEPHENS
SPOT LOCATION: SW NW NE NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 500 1610

Lease Name: BRIAR Well No: 4H-35X Well will be 500 feet from nearest unit or lease boundary.

Operator Name: NEWFIELD EXPLORATION MID-CON INC Telephone: 9188781290 OTC/OCC Number: 20944 0

NEWFIELD EXPLORATION MID-CON INC
1 WILLIAMS CTR STE 1900
TULSA, OK 74172-0162

JOHN MANGUS & DEBBIE MANGUS
RT. 1, BOX 8920
FOSTER OK 73434

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

Name	Depth	Name	Depth
1 WOODFORD	13333	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 603571 Location Exception Orders: 617613 Increased Density Orders: 617387
387920 617934 617388
618671

Pending CD Numbers:

Special Orders:

Total Depth: 24002 Ground Elevation: 1175 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 480

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: 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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: DUNCAN

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 14-26205

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: 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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: DUNCAN

HORIZONTAL HOLE 1

Sec 35 Twp 3N Rge 4W County GARVIN

Spot Location of End Point: NW NE NE NW

Feet From: NORTH 1/4 Section Line: 40

Feet From: WEST 1/4 Section Line: 2010

Depth of Deviation: 12609

Radius of Turn: 740

Direction: 5

Total Length: 10230

Measured Total Depth: 24002

True Vertical Depth: 13333

End Point Location from Lease,
Unit, or Property Line: 40

Notes:

Category

Description

DEEP SURFACE CASING

1/14/2014 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

INCREASED DENSITY - 617387

1/14/2014 - G75 - 2-2N-4W
X603571 WDFD
4 WELLS
NEWFIELD EXPLOR. MID-CONT. INC.
10-28-2013

INCREASED DENSITY - 617388

1/14/2014 - G75 - 35-3N-4W
X387920 WDFD
4 WELLS
NEWFIELD EXPLOR. MID-CONT. INC.
10-28-2013

LOCATION EXCEPTION - 617613

1/14/2014 - G75 - (I.O.)
X603571 WDFD
SHL NCT 150 FNL, NCT 1320 FWL 11-2N-4W
COMPL. INT. NCT 165 FSL, NCT 0 FNL, NCT 1320 FWL 2-2N-4W
NEWFIELD EXPLOR. MID-CONT. INC.
10-31-2013

LOCATION EXCEPTION - 617934

1/14/2014 - G75 - (I.O.) 35-3N-4W
X387920 WDFD, OTHERS
COMPL. INT. NCT 0 FSL, NCT 165 FNL, NCT 1320 FWL
NEWFIELD EXPLOR. MID-CONT. INC.
11-8-2013

MEMO

1/14/2014 - G75 - 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

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
SPACING - 387920	1/14/2014 - G75 - (640) 35-3N-4W VAC OTHER EXT 360755 WDFD, OTHERS
SPACING - 603571	1/14/2014 - G75 - (640)(HOR) 2-2N-4W EST WDFD, OTHERS COMPL. INT. NLT 330' FB, NCT 600' FWB
SPACING - 618671	1/14/2014 - G75 - (I.O.) 2-2N-4W & 35-3N-4W EST MULTIUNIT HORIZONTAL WELL X603571 WDFD 2-2N-4W X387920 WDFD, OTHERS 35-3N-4W 50% 2-2N-4W 50% 35-3N-4W NEWFIELD EXPLOR. MID-CONT. INC. 12-3-2013

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.

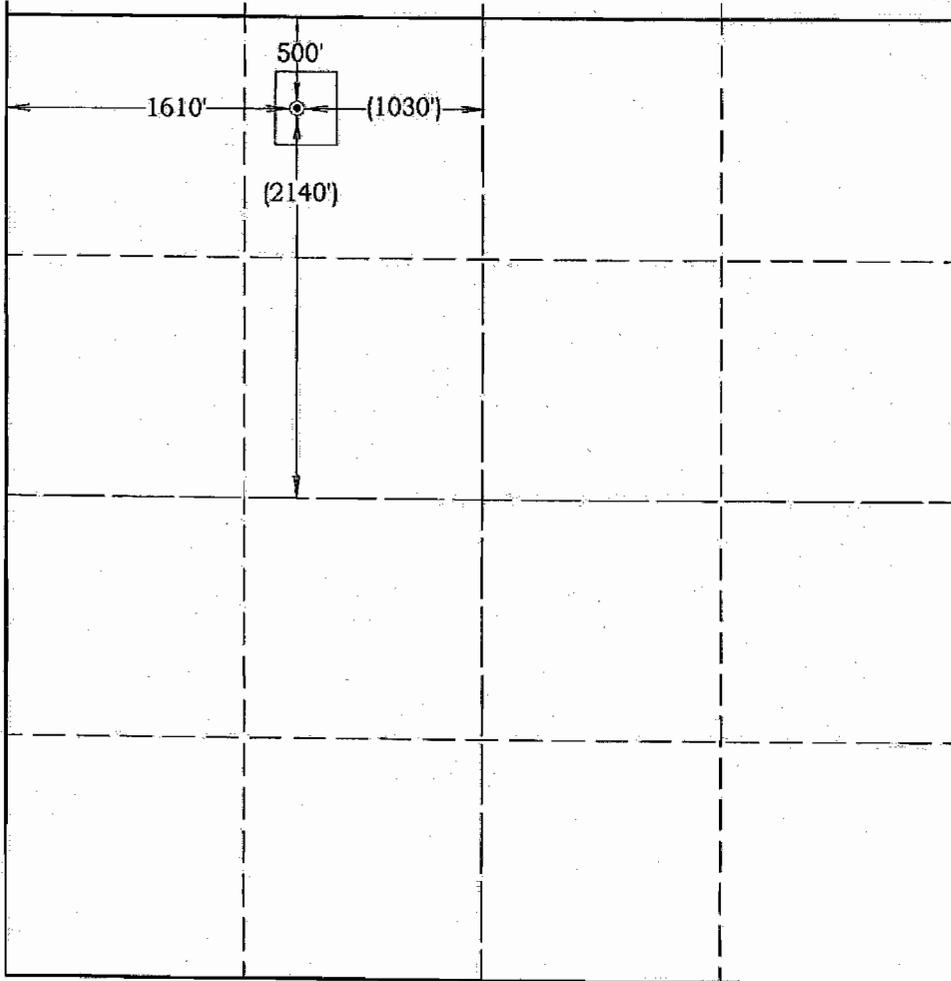
Well Location Plat

M & M Land Surveying, Inc.

API 137-29158

520 "E" Street NW. Ardmore, OK. 73401
 Office 580-226-0446 Mobile 580-221-4999 Fax 580-226-7158

Company Name: Newfield Exploration Mid-Continent, Inc. Lease Name: Briar #4H-35X
 Section 11 Township 2 North Range 4 West County Stephens Oklahoma
 Surface Location 500' FNL - 1610' FWL Elevation 1175' Good Location? Yes Topography Location fell in a pasture.



Scale: 1" = 1000'
 Invoice #13291
 Date 9/19/13
 Elevations of Proposed Pad Corners
 NW/C - 1178'
 NE/C - 1188'
 SE/C - 1181'
 SW/C - 1169'
 Coordinates were derived from GPS RTK methods and are only accurate within ±10 feet
 Location GPS NAD 27 Oklahoma South Surface Location
 Latitude: 34.66529°
 Longitude: 97.59232°
 Y = 484,961'
 X = 2,122,589'
 Location NAD 83 Surface Location
 Latitude: 34.66537°
 Longitude: 97.59263°

Best Accessibility to Location From the North

Distance & Direction From From the Jct. of SH. #29 & SH. #76 North, go 2.0 miles North on SH. #76 to the Northwest Corner of Section 11.
 Highway or Town _____

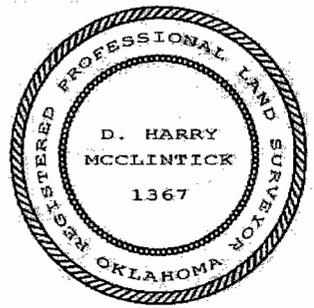
CERTIFICATE:

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.

D. Harry McClintick 10/9/13
 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.

The distances shown in parenthesis () are calculated distances based on the quarter section being 2640' and have not been measured.



NEWFIELD



Newfield Exploration Mid-Continent, Inc.
One Williams Center; Suite 1900
Tulsa, OK 741729
918-582-2690
Fax: 918-732-1787

January 13, 2014

API 137-27158

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

ATTN: Manager of the Technical Services Department

RE: Liner Variance Request
Briar 4H-35X
Sec 11-02N-04W, Stephens County

Dear Sir:

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. 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;

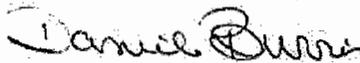
- ix. Selenium, 1.00 mg/l;
- x. Silver, 5.00 mg/l;
- xi. Zinc, 5.00 mg/l; and
- xii. Benzene, 0.5 mg/l.

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
Sr. Regulatory Specialist

cc: WF
Geoffrey Nielsen

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 137-27158

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.

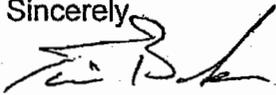
The TSD Manager will require operators to submit documentation in support of requests for variances. Variances to liner requirements for pits containing OBC are not effective until granted by the TSD Manager. If operators requesting variances to liner requirements for pits containing OBC fail to submit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