API NUMBER: 051 23688

Oil & Gas

Horizontal Hole

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

Approval Date: 05/15/2013
Expiration Date: 11/15/2013

PERMIT TO DRILL

WELL LOCATION: Sec: 23 Twp: 3N Rge: 5W County: GRADY

SPOT LOCATION: SE NE NW NW FEET FROM QUARTER: FROM NORTH FROM WEST SECTION LINES: 448 1032

Lease Name: VINSON Well No: 5H-14 Well will be 448 feet from nearest unit or lease boundary.

Operator NEWFIELD EXPL MIDCONTINENT INC Telephone: 9188781290 OTC/OCC Number: 20944 0

NEWFIELD EXPL MIDCONTINENT INC

1 WILLIAMS CTR STE 1900

TULSA, OK 74172-0162

ROBIN KATHLEEN VAUGHN GENTRY

P.O. BOX 702

MT. VERNON TX 75457

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

Name Depth Name Depth MISSISSIPPIAN 1 14717 6 2 WOODFORD 14974 7 3 HUNTON 15209 8 9 10 185688 Spacing Orders: Location Exception Orders: 610934 Increased Density Orders: 610822 185087

Pending CD Numbers: Special Orders:

Total Depth: 20419 Ground Elevation: 1171 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 290

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

PIT 1 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 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

Approved Method for disposal of Drilling Fluids:

B. Solidification of pit contents.

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

PERMIT NO: 13-23376

H. SEE MEMO

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

County Sec 14 Twp 3N Rge 5W **GRADY** NW Spot Location of End Point: ΝE NW NW Feet From: NORTH 1/4 Section Line: 50 Feet From: WEST 1/4 Section Line: 520

Depth of Deviation: 14306 Radius of Turn: 740 Direction: 355

Total Length: 4950

Measured Total Depth: 20419

True Vertical Depth: 15209

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

Additional Surface Owner	Address	City, State, Zip		
BENJAMIN BARRESI, COSMO INVES	501 N. WALKER, SUITE 120	OKLAHOMA CITY, OK 73102		
ROBERT VAUGHN	210 LAURN LANE	PALMER, AR 99645		
MICHAEL A. BIRCH	12316-A N. MAY AVENUE	OKLAHOMA CITY, OK 73120		

Notes:

Category Description

DEEP SURFACE CASING 5/14/2013 - 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 - 610822 5/14/2013 - G75 - 14-3N-5W

X185087/185688 WDFD

4 WELLS

NEWFIELD EXPLOR. MID-CONT. INC.

4-25-2013

LOCATION EXCEPTION - 610934 5/14/2013 - G75 - (I.O.)

X185087/185688 MSSP, WDFD, HNTN SHL NCT 330 FNL, NCT 330 FWL 23-3N-5W FIRST PERF NCT 165 FSL, NCT 330 FWL 14-3N-5W LAST PERF NCT 165 FNL, NCT 330 FWL 14-3N-5W

NEWFIELD EXPLOR. MID-CONT., INC.

4-29-2013

MEMO 5/14/2013 - 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

SPACING - 185087 5/14/2013 - G75 - (640) 14-3N-5W

EXT 171539 HNTN, OTHERS EST MSSP, WDFD, OTHERS

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 - 185688

5/14/2013 - $\mathsf{G75}$ - NPT 185087 CHANGING PARAGRAPH 1 OF ORDER FROM MCCLAIN CO. TO GRADY CO.

Well Location Plat

API 051-23688

M & M Land Surveying, Inc.

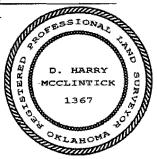
520 "E" Street NW. Ardmore, OK. 73401

Office 580-226-0446 Mobile 580-221-4999 Fax 580-226-7158

ompany Name:	Newfield Explor	ation Mid-Con	tinent, Inc.	Lease Nan	ne: Vinson	ı #5H-14		
ection 23	Township	3 North	Range _	5 West	County _	Grady	Oklahoma	
ırface Location _	448' FNL - 1032' FWL		Elevation		Good Location? Yes		Topography cation fell in pasture.	
1032'	48' (1608') 192')						Scale: 1" = 100 Invoice #1308 Date 4/11/20 Elevations of Propose Pad Corners NW/C - 1151' NE/C - 1167' SE/C - 1192' SW/C - 1177' Coordinates were derifted and are only accurate within ±10 feet Location GPS NAD 27 Oklahoma South Surface Location Latitude: 34,72374'	
			······································			Don't A	Longitude: 97.69994° X = 2,090,167' Y= 506,120' Location HAD 83 Surface Location Latitude: 34.72382° Longitude: 97.70025° Accessibility to Location	
					est on SH. #29, ti	 nen 6.2	the West	
	es North and 1.6 tion 23.	miles East on	County road	ds to the l	Northwest Corner		D. HARRY MCCLINTICK	

guaranteed. Please review this plat and notify us immediately of any discrepancy.

distances based on the quarter section being 2640' and have not been measured.





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

May 13, 2013

API 051-23688

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

Vinson 5H-14

Sec 23-03N-05W, Grady 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 Durost 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 Analyst

I comel Burn

cc: WF

Geoffrey Nielsen

OKLÁHOMA

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 051-23688

Same to Jan St.

RE: Requests for variances to liner requirements for pits used to contain oil-based cuttings of the first and the second cuttings of the second cutting cu

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

Chanoma 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

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