PI NUMBER: 017 24944 izontal Hole Oil & Gas	OIL & GAS OKLAHO	CORPORATION CONSERVATIO P.O. BOX 52000 MA CITY, OK 73 (Rule 165:10-3-1	N DIVISION) 3152-2000	Approval Date: 11/04/2016 Expiration Date: 05/04/2017
	<u> </u>	PERMIT TO DRII	<u>_L</u>	
VELL LOCATION: Sec: 27 Twp: 14N Rge:	6W County: CANAI	DIAN		
	FEET FROM QUARTER: FROM	NORTH FROM E	AST	
	SECTION LINES:	250 66	0	
Lease Name: EILEEN	Well No:	1H-14X	Well w	vill be 250 feet from nearest unit or lease boundary
Operator NEWFIELD EXPLORATION MID Name:	D-CON INC	Telephone: 2816	742521; 9188781	OTC/OCC Number: 20944 0
NEWFIELD EXPLORATION MID-CO	IN INC		STEPHEN A. SC	HI II TE
24 WATERWAY AVE STE 900			P.O. BOX 246	
THE WOODLANDS, TX	77380-3197			01/
			OKARCHE	OK 73762
2 WOODFORD 3 4 5	8278	7 8 9 10		
Spacing Orders: 654162	Location Exception C	Orders:		Increased Density Orders:
Pending CD Numbers: 201604529 201604531 201604543				Special Orders:
Total Depth: 18628 Ground Elevation:	1332 Surface C	asing: 1500		Depth to base of Treatable Water-Bearing FM: 580
Under Federal Jurisdiction: No	Fresh Water S	Supply Well Drilled: 1	NO	Surface Water used to Drill: Yes
PIT 1 INFORMATION		Appro	ved Method for disposal o	of Drilling Fluids:
Type of Pit System: ON SITE Type of Mud System: AIR			aporation/dewater and ba lidification of pit contents.	
Is depth to top of ground water greater than 10ft below Within 1 mile of municipal water well? N	v base of pit? Y			ning facility: Sec. 6 Twn. 2N Rng. 4W Cnty. 137 Order No:
Wellhead Protection Area? N			617361 H. SEE MEMO	
Pit is located in a Hydrologically Sensitive Area	а.			
Category of Pit: 4				
Liner not required for Category: 4				
Pit Location is BED AQUIFER				
Pit Location Formation: DUNCAN				

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 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

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? 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 14 Twp 14N Rge 6W County CANADIAN Spot Location of End Point: NF NW NW NW Feet From: NORTH 1/4 Section Line: 50 Feet From: WEST 1/4 Section Line: 440 Depth of Deviation: 7633 Radius of Turn: 750 Direction: 10 Total Length: 9817 Measured Total Depth: 18628 True Vertical Depth: 8278 End Point Location from Lease. Unit, or Property Line: 50 Notes: Category Description 11/4/2016 - G71 - APPROVED: NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS DEEP SURFACE CASING OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING HYDRAULIC FRACTURING 11/4/2016 - 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.

Catagori	Description
Category	Description
MEMO	11/4/2016 - 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 - 201604529	11/4/2016 - G75 - (640)(HOR) 14-14N-6W EXT 654162 MSSP, WDFD, OTHER COMPL. INT. (MSSP) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL (COEXIST SP. ORDER # 127809/187655/191923 MSSLM) REC 10-31-2016 (MCKEOWN)
PENDING CD - 201604531	11/4/2016 - G75 - (I.O.) 14 & 23-14N-6W EST MULTIUNIT HORIZONTAL WELL X201604529 MSSP, WDFD, OTHER 14-14N-6W X654162 MSSP, WDFD, OTHER 23-14N-6W (MSSP ASSOCIATED COMMON SOURCE OF SUPPLY TO WDFD) 50% 14-14N-6W 50% 23-14N-6W NEWFIELD EXPLOR. MID-CONT. INC. REC 10-31-2016 (MCKEOWN)
PENDING CD - 201604543	11/4/2016 - G75 - (I.O.) 14 & 23-14N-6W X201604529 MSSP, WDFD, OTHER 14-14N-6W X654162 MSSP, WDFD, OTHER 23-14N-6W X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO WITTROCK 14-13 SHL (23-14N-6W) NCT 150' FSL, NCT 330' FWL ** COMPL. INT. (23-14N-6W) NCT 165' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (14-14N-6W) NCT 0' FSL, NCT 165' FNL, NCT 330' FWL NEWFIELD EXPLOR. MID-CONT. INC. REC 10-31-2016 (MCKEOWN)
SPACING - 654162	** ITD HAS SHL AS 250' FNL, 660' FEL 27-14N-6W; TO BE CORRECTED AT HEARING FOR FINAL ORDER LOCATION EXCEPTION PER OPERATOR 11/4/2016 - G75 - (640)(HOR) 23-14N-6W EXT 649359 MSSP, WDFD, OTHER COMPL. INT. (MSSP) NLT 660' FB COMPL. INT. (WDFD) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL (COEXIST MISS IN MONNET 1 SE4 NE4 & MONNET 2 SE4 SW4)



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

November 3, 2016

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

API 017-24944

ATTN: Manager of the Technical Services Department

RE: Newfield Exploration Mid Continent, Inc. Eileen 1H-14X Sec 27-14N-06W Canadian County

Liner Variance Request

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
 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,

Heather Soto Regulatory Specialist

cc: WF

Bob Anthony Commissioner

OKLAHOMA Corporation Commission

OKLAHOMA CITY OKLAHOMA 73152-2000

OIL & GAS CONSERVATION DIVISION



Jeff Cloud

Commissioner

255 Jim Thorpe Building

Dana Murphy

Commissioner

Telephone: (405)521-2302 FAX: (405)521-3099

Lori Wrotenbery, Director

API 017-24944

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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 or other end

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(b)(5) states that any variance from the liner requirements of 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

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المحاجيج الهراب أحمد الأجاري والمعاملات والمحاجبة

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. موجع تحمط في المراجع

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

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