API NUMBER: C	73 25663 Oil & Gas	OIL & GAS	CORPORATION CONSERVATIO P.O. BOX 52000 MA CITY, OK 73 Rule 165:10-3-1	N DIVISION) 3152-2000	Approval Date: Expiration Date:	06/07/2017 12/07/2017
		E	PERMIT TO DRII	<u>_L</u>		
WELL LOCATION:	Sec: 36 Twp: 15N Rge:	9W County: KINGFI	SHER			
SPOT LOCATION:	SE NW NW NW		ORTH FROM W	EST		
		SECTION LINES: 3	375 39	00		
Lease Name: KA	TIE	Well No: 1	1509 1H-36	Well will	be 375 feet from neare	st unit or lease boundary.
Operator Name:	NEWFIELD EXPLORATION MII	D-CON INC	Telephone: 28167	742521; 9188781	OTC/OCC Number:	20944 0
	EXPLORATION MID-CC WAY AVE STE 900 TX	DN INC 77380-2764		ANNE K. COFFEY PO BOX 337 OKARCHE	TRUST AGREEMENT OK 7	10/13/1997 3762
	(Permit Valid for Listed me SSISSIPPI SOLID	Formations Only): Depth 8905	6 7 8 9 10	Name	Dept	h
Spacing Orders: 1	64538	Location Exception Or	rders:		Increased Density Orders:	
Pending CD Number Total Depth: 151	201703285	: 1220 Surface Ca	asing: 1500	De	Special Orders:	r-Bearing FM: 410
Under Federal Ju	risdiction: No	Fresh Water S	Supply Well Drilled: N	No	Surface Water u	used to Drill: No
PIT 1 INFORMATIO	DN		Appro	ved Method for disposal of D	Drilling Fluids:	
Type of Pit System:	ON SITE		A. Ev	aporation/dewater and back	filling of reserve pit.	
Type of Mud System	n: AIR					
Within 1 mile of mur Wellhead Protection			6173		ng facility: Sec. 6 Twn. 2N Rng.	4W Cnty. 137 Order No:
Category of Pit:		u.				
Liner not required Pit Location is N Pit Location Format	for Category: 4 DN HSA ion: CHICKASHA					
wua System Chang	e to vvater-based or Oil-Based M	lud Requires an Amended Intent (For	im 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: 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: CHICKASHA

HORIZONTAL HOLE 1

Sec 36 Twp 15N Rge 9W County KINGFISHER Spot Location of End Point: SF SW SW SW Feet From: SOUTH 1/4 Section Line: 50 Feet From: WEST 1/4 Section Line: 380 Depth of Deviation: 8930 Radius of Turn: 715 Direction: 181 Total Length: 5070 Measured Total Depth: 15124 True Vertical Depth: 9846 End Point Location from Lease, Unit, or Property Line: 50

Additional Surface Owner	Address	City, State, Zip
WILLIAM J. WITTROCK FAMILY TRU	3500 N. FLAMINGO	BETHANY, OK 73008
MARY W. RUEB FAMILY TRUST 5/22/	3033 NW 63RD, SUITE 150	OKLAHOMA CITY, OK 73116

Notes:

Category

DEEP SURFACE CASING

5/19/2017 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

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.

Description

Category	Description
HYDRAULIC FRACTURING	5/19/2017 - 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	5/19/2017 - 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
PENDING CD - 201702632	5/23/2017 - G60 - (I.O.) 36-15N-9W X201702631 MSSP ** POE TO BHL NCT 165' FNL, NCT 165' FSL, NCT 330' FWL NO OP. NAMED REC. 5/15/17 (JOHNSON)
	**CHANGED TO MSSSD AT MERIT HEARING PER ATTORNEY FOR OPERATOR
PENDING CD - 201703285	5/25/2017 - G60 - (I.O.) 36-15N-9W X164538 MSSP ** 1 WELL NO OP. NAMED REC. 6/5/17 (MCKEOWN)
SPACING - 164538	**CHANGED TO MSSSD AT MERIT HEARING PER ATTORNEY FOR OPERATOR 5/23/2017 - G60 - (640) 36-15N-9W EXT OTHERS EXT 76186 MSSSD, OTHER

3507325663



Newfield Exploration Mid-Continent, Inc. 24 Waterway, Suite 900 The Woodlands, TX 77380

> Regulatory Dept. PHONE: 281-674-2521 FAX: 346-224-7026

May 18, 2017

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

> RE: Katie 1509 1H-36 Sec 36-15N-09W Kingfisher County, OK

Dear Sir/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 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 $1 \ge 10^{-6}$ 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 $Duro^{SM}$ 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.

mith Evelyn P. Smith 1.18

Evelyn P. Smith Sr. Regulatory Specialist

3507325663

Bob Anthony Commissioner

OKLAHOMA

Corporation Commission

OKLAHOMA CITY OKLAHOMA 73152-2000

OIL & GAS CONSERVATION DIVISION

255 Jim Thorpe Building Telephone: (405)521-2302 FAX: (405)521-3099

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 or other en

Jeff Cloud

Commissioner

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(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(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.

Dana Murphy Commissioner 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

وم الرائد فالدار

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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PERMIT PLAT

M & M Land Surveying, Inc. Phone (580) 226-0446 520 E Street N.W. Ardmore, OK 73401

Company Name: NEWFIELD EXPLORATION MID-CONTINENT INC. Lease Name: KATIE 1509 1H-36 Section 36 Township 15 N Range 9 W , I.B.M, County of Kingfisher, State of Oklahoma Elevation Good Location? Original Location: 375'FNL - 390'FWL 1220' GROUND YES Distance & Direction From Nearest Town: 8.0 miles WNW of Okarche





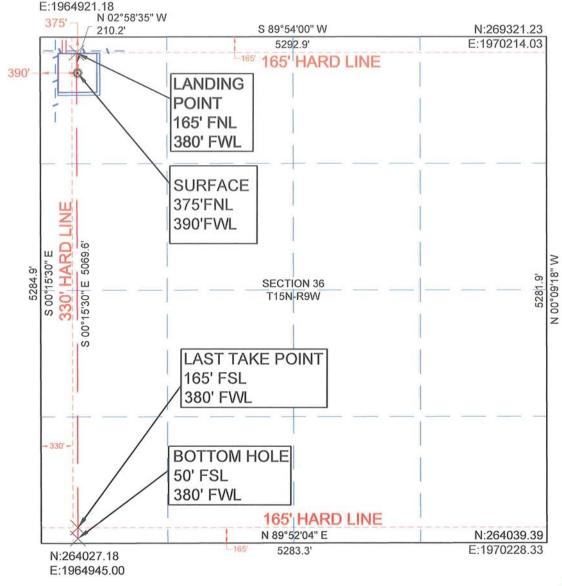
SURFACE LOCATION SURFACE LUCATION DATUM: NAD27 LAT: 35° 44' 19.56'N LONG: 98° 07' 00.76'W LAT: 35.738767'N LONG: 98.116877'W STATE PLANE COORDINATES: (US SURVEY FEET) ZONE: NORTH ZONE 268937.72 1965312.89 Y (N): X (E): DATUM: NAD83 LAT: <u>35° 44' 19.72"N</u> LONG: <u>98° 07' 01.96"W</u> LAT: <u>35.738812°N</u> LAT: 35.738812°N LONG: 98.117212°W STATE PLANE COORDINATES: (US SURVEY FEET) ZONE: NORTH ZONE Y (N): 268961.454 X (E): 1933714.171

DATA DERIVED FROM G.P.S. WITH O.P.U.S. DATA.

This location has been staked according to the best official survey records available to us. The metrical data shown hereon is for permitting the well location and the section location may or may not be field verified. Please review this plat and notify us immediately of any discrepancy.



D. Harry McClintick PLS. No.1367 CFEDS



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 and that said plat meets or exceeds the Oklahoma Minimum Technical Standards for the practice of land surveying as adopted by the Oklahoma State Board of Licensure for Professional Engineers and Land Surveyors.

SURVEY BY: M & M	Land Surveying, Inc. ~ C.A. No. 3093 (LS)
DRAWING BY: Bennet	t-Morris And Associates Land Surveying, P.C.
© COPYRIGHT 2017	C.A. No. 5975 (LS) ~ Aaron L. Morris, RPLS
PROJECT NUMBER:	SITE VISIT: (Explanation and Date)
17155	STAKING DATE: 04/11/2017
SHEET: 6 OF 10	DRAWING DATE: 05/10/2017