API NUMBER: 093 25217

Type of Mud System: WATER BASED

Within 1 mile of municipal water well? N

Is depth to top of ground water greater than 10ft below base of pit? Y

is located in a Hydrologically Sensitive Area.

Chlorides Max: 10000 Average: 5000

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: CEDAR HILLS

Wellhead Protection Area?

Category of Pit: C

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: 04/11/2019
Expiration Date: 10/11/2020

PERMIT TO DRILL

VELL LOCATION: Sec: 11 SPOT LOCATION: SW	SE SE F	County: MAJO EET FROM QUARTER: FROM ECTION LINES:	SOUTH FROM I	EAST		
Lease Name: LOWELL 211	2	Well No:	1-11H	v	Well will be 225 feet from nearest unit or lease boundary.	
Operator SANDRID Name:	GE EXPLORATION & PROD	UCTION LLC	Telephone: 405	4295610	OTC/OCC Number: 22281 0	
SANDRIDGE EXPL 123 ROBERT S KE OKLAHOMA CITY,		TION LLC 3102-6406		GGL MARTE 2925 NE 36T C/O LOWELL NEWTON	гн	
Formation(s) (Permit	Valid for Listed Forma	ntions Only): Depth		Name	Depth	
1 MISSISSIPPI	AN	7300	6			
2			7			
4			9			
5			10			
Spacing Orders: No Spacing		Location Exception	Orders:		Increased Density Orders:	
•	01490 01491				Special Orders:	
Total Depth: 12300 Ground Elevation: 1229		Surface	Casing: 1500		Depth to base of Treatable Water-Bearing FM: 360	
Under Federal Jurisdiction: No		Fresh Wate	r Supply Well Drilled:	No	Surface Water used to Drill: Yes	
PIT 1 INFORMATION			Approved Method for disposal of Drilling Fluids:			
Type of Dit System: CLOSET	Closed System Means Stee	l Dite				

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

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.

PERMIT NO: 19-36325

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: CEDAR HILLS

HORIZONTAL HOLE 1

Sec. 11 Twp 21N Rge 12W County **MAJOR** Spot Location of End Point: N2 N2 ΝE NF Feet From: NORTH 1/4 Section Line: 150 Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 6944 Radius of Turn: 477 Direction: 360

Total Length: 4607

Measured Total Depth: 12300

True Vertical Depth: 7300

End Point Location from Lease,
Unit, or Property Line: 150

Notes:

MEMO

Category Description

DEEP SURFACE CASING 3/20/2019 - 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

HYDRAULIC FRACTURING 3/20/2019 - G71 - OCC 165:10-3-10 REQUIRES:

1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE:

2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE

"FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK:

OCCEWEB.COM/OG/OGFORMS.HTML; AND,

3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: FRACFOCUS.ORG

3/20/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - GYPSUM CREEK),

PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201901490 3/29/2019 - GA8 - (640)(HOR) 11-21N-12W

VAC 157663 MNNG, MRMC, OSGE

VAC 142027 CRUNC EXT 671032 MSSP

REC. 4/1/2019 (P. PORTER)

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 - 201901491

3/29/2019 - GA8 - (I.O.) 11-21N-12W X201901490 MSSP COMPL. INT. NCT 150' FSL, NCT 150' FNL, NCT 560' FEL NO OP. NAMED REC. 4/1/2019 (P. PORTER)