API NUMBER: 043 23571

Wellhead Protection Area? N

Liner not required for Category: C
Pit Location is AP/TE DEPOSIT
Pit Location Formation: TERRACE

Category of Pit: C

is located in a Hydrologically Sensitive Area.

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: 11/20/2017
Expiration Date: 05/20/2018

PERMIT TO DRILL

WELL LOCATION: Sec: 07 Twp: 18N Rge: 14W	County: DEV	VEY				
or or zoomion. Itti Itti Itti	ET FROM QUARTER: FROM	NORTH FROM	EAST			
SE	CTION LINES:	200	2454			
Lease Name: HAMILTON	Well No:	7-6-1H		Well will be	200 feet from nearest	unit or lease boundary.
Operator COMANCHE EXPLORATION CO LLC Name:		Telephone:	4057555900		OTC/OCC Number:	20631 0
COMANCHE EXPLORATION CO LLC 6520 N WESTERN AVE STE 300 OKLAHOMA CITY, OK 73116-7334			JANET H. & LIONEL P. JOHNSON, TRUSTEES 2640 ALTEZA LANE			
ORLAHOMA CITT, OR 75116-7554			COLORADO SPRINGS CO 80917			
Formation(s) (Permit Valid for Listed Formation(s) Name 1 MISSISSIPPIAN 2 3 4 5	tions Only): Depth 10060		Name 6 7 8 9 10		Depth	
Spacing Orders:	S: No Spacing Location Exception Or		: Increased Density Orders:			
Pending CD Numbers: 201706804 201706803				Sp	ecial Orders:	
Total Depth: 15205 Ground Elevation: 1919	Surface	Casing: 850		Depth t	o base of Treatable Water-I	Bearing FM: 450
Under Federal Jurisdiction: No	Fresh Wate	er Supply Well Drille	ed: No		Surface Water us	ed to Drill: No
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: 8000 Average: 5000			D. One time land application (REQUIRES PERMIT) PERMIT NO: 17-33 H. SEE MEMO			PERMIT NO: 17-3341
Is depth to top of ground water greater than 10ft below base of	of pit? Y	-				

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 AP/TE DEPOSIT
Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 06 Twp 18N Rge 14W County **DEWEY** Spot Location of End Point: NW NW NW NF Feet From: NORTH 1/4 Section Line: 135 EAST Feet From: 1/4 Section Line: 2454

Depth of Deviation: 9530 Radius of Turn: 477 Direction: 360

Total Length: 4926

Measured Total Depth: 15205

True Vertical Depth: 10060

End Point Location from Lease,
Unit, or Property Line: 135

Notes:

Category Description

DEEP SURFACE CASING 11/9/2017 - 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

HYDRAULIC FRACTURING 11/9/2017 - 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

INTERMEDIATE CASING 11/9/2017 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-

PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE

MORROW SERIES

MEMO 11/9/2017 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 -

OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

Category Description

PENDING CD - 201706803 11/20/2017 - G57 -(E.O.)(640)(HOR) 6-18N-14W VAC 258497 MSSD, CSTR

VAC 258497 MSSD, CSTR EST MSSP, OTHERS POE TO BHL NCT 660' FB COMANCHE EXPL.CO., LLC

REC 11/03/2017 (THOMAS, AFFIRMED BY MACGUIGAN)

PENDING CD - 201706804 11/20/2017 - G57 - (E.O.) 6-18N-14W

X201706803 MSSP, OTHERS

COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 330' FWL

COMANCHE EXPL. CO., LLC REC 11/16/2017 (THOMAS)