| PI NUMBER: 043 23585 rizontal Hole Oil & Gas | OIL & GAS CO P. OKLAHOM | RPORATION COMMISSION DNSERVATION DIVISION O. BOX 52000 A CITY, OK 73152-2000 Jle 165:10-3-1) | Approval Date: Expiration Date: | 01/04/2018 07/04/2018 | | |
|---|-------------------------------|--|------------------------------------|---------------------------|--|--|
| | PE | RMIT TO DRILL | | | | |
| | | | | | | |
| WELL LOCATION: Sec: 36 Twp: 19N Rge: 15V | | | | | | |
| SPOT LOCATION: NE NW NE NE | FEET FROM QUARTER: FROM NOF | RTH FROM EAST | | | | |
| | SECTION LINES: 275 | 950 | | | | |
| Lease Name: CONNOR SULLIVAN | Well No: 19- | 15-36 1H W | ell will be 275 feet from neares | t unit or lease boundary. | | |
| Operator STAGHORN PETROLEUM II LLC Name: | | Telephone: 9185842558 | OTC/OCC Number: | 24056 0 | | |
| STAGHORN PETROLEUM II LLC | | | | | | |
| 1 W 3RD ST STE 1000 | | | WWR LAND & CATTLE, LLC. | | | |
| TULSA, OK | 74103-3500 | 404 SW 175T | - | - | | |
| | | MOORE | OK 7: | 3170 | | |
| 2 3 4 5 | | 7 8 9 10 | | | | |
| Spacing Orders: 671044 | Location Exception Orde | rs: 201706531 | Increased Density Orders: | | | |
| Pending CD Numbers: | | | Special Orders: | | | |
| Total Depth: 15300 Ground Elevation: 188 | ³⁷ Surface Cas | ing: 550 | Depth to base of Treatable Water | Bearing FM: 300 | | |
| Under Federal Jurisdiction: No | Fresh Water Sup | ply Well Drilled: No | Surface Water us | sed to Drill: Yes | | |
| PIT 1 INFORMATION | | Approved Method for dispo | sal of Drilling Fluids: | | | |
| Type of Pit System: CLOSED Closed System Means St | teel Pits | | | | | |
| Type of Mud System: WATER BASED | | D. One time land applicati | on (REQUIRES PERMIT) | PERMIT NO: 17-3367 | | |
| Chlorides Max: 8000 Average: 5000 | | H. SEE MEMO | | | | |
| Is depth to top of ground water greater than 10ft below bas | e of pit? Y | | | | | |
| Within 1 mile of municipal water well? N Wellhead Protection Area? N | | | | | | |
| Wellhead Protection Area? N Pit is located in a Hydrologically Sensitive Area. | | | | | | |
| in is located in a right objective Aled. | | | | | | |
| Category of Pit: C | | | | | | |
| Category of Pit: C Liner not required for Category: C | | | | | | |
| Category of Pit: C Liner not required for Category: C Pit Location is BED AQUIFER | | | | | | |

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: RUSH SPRINGS

HORIZONTAL HOLE 1

| Sec | 36 | Twp | 19N | Rge | 15\ | Ν | County | DEWEY | |
|--------------------------------|-----------------|-------|--------|---------|-------|------|--------|-------|--|
| Spot I | Locatior | of En | d Poin | t: S2 | 2 | SE | SE | SE | |
| Feet I | From: | SOL | JTH | 1/4 Sec | ction | Line | e: { | 50 | |
| Feet I | Feet From: EAST | | т | 1/4 Se | ction | Line | e: : | 330 | |
| Depth of Deviation: 9306 | | | | | | | | | |
| Radius of Turn: 800 | | | | | | | | | |
| Direction: 178 | | | | | | | | | |
| Total Length: 4737 | | | | | | | | | |
| Measured Total Depth: 15300 | | | | | | | | | |
| True Vertical Depth: 10016 | | | | | | | | | |
| End Point Location from Lease, | | | | | | | | | |
| Unit, or Property Line: 50 | | | | | | | | | |
| | | | | | | | | | |

| Notes: | |
|--------------------------------|--|
| Category | Description |
| HYDRAULIC FRACTURING | 1/4/2018 - 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 | 1/4/2018 - 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 |
| LOCATION EXCEPTION - 201706531 | 1/4/2018 - G57 - (I.O.) 36-19N-15W X671044 MSSP COMPL. INT. NCT 165' FNL, NCT 165' FSL, NCT 330' FEL NO OP. NAMED REC 11-6-2017 (MCKEOWN) |
| MEMO | 1/4/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT |

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. 043 23585 CONNOR SULLIVAN 19-15-36 1H

SPACING - 671044

Description

1/4/2018 - G57 - (640)(HOR) 36-19N-15W EXT 665418 MSSP, OTHER EST OTHER POE TO BHL NCT 660' FB (COEXIST SP. ORDER #258497 MSSSD, CSTR)

