

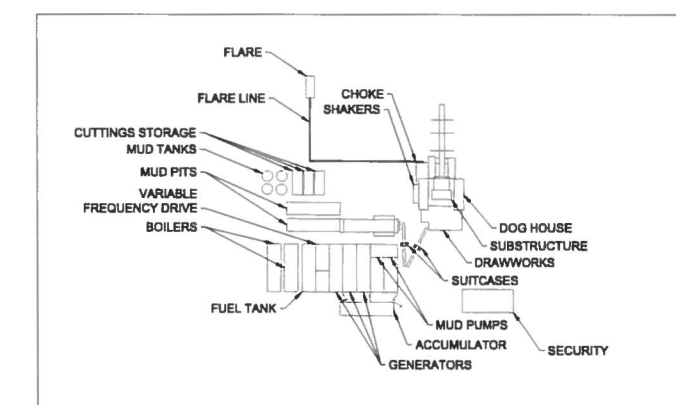
DENALI STATE 05N67W13 1-23 PAD
USE BY SPECIAL REVIEW AND CONSTRUCTION DRAWINGS
 TOWNSHIP 5 NORTH, RANGE 67 WEST, 6TH P.M., SECTION 13
 CITY OF GREELEY, COUNTY OF WELD, STATE OF COLORADO
 16.21 ACRES
 PROJECT NUMBER: USR2022-0015

GENERAL NOTES:

- 1 THE LAYOUT SHOWN ON THIS PLAN IS CONCEPTUAL AND IS A REPRESENTATION OF THE ANTICIPATED LAYOUT OF THE DRILL RIG AND OTHER EQUIPMENT DURING THE DRILLING PHASE OF THIS PROJECT. ACTUAL LOCATION OF THE DRILL RIG AND OTHER EQUIPMENT MAY VARY ONCE RIG IS SET UP ON SITE.
- 2 OVERALL LIMITS OF DRILL RIG PLACEMENT SHOWN ON PLAN ARE APPROXIMATE.
- 3 DRILLING RIG AND OTHER EQUIPMENT SHOWN ARE TEMPORARY AND WILL BE MOVED OFF-SITE UPON COMPLETION OF DRILLING.

BEST MANAGEMENT PRACTICES

- 1 EXHAUST FROM ALL ENGINES, MOTORS, COOLERS, AND OTHER MECHANIZED EQUIPMENT SHALL BE VENTED AWAY FROM ALL OCCUPIED BUILDINGS
- 2 WHEN FEASIBLE, ELECTRIC COMPRESSORS SHALL BE UTILIZED
- 3 A CLOSED LOOP SYSTEM WILL BE UTILIZED FOR ALL DRILLING FLUIDS. NO OPEN PITS WILL BE USED
- 4 TO MINIMIZE IMPACTS FROM LIGHTING USED DURING THE DRILLING PHASE, LIGHTING SHIELD DEVICES WILL BE INSTALLED ON ALL OF THE MORE CONSPICUOUS LIGHTS AND THE RIG FLOOR WILL BE SHROUDED
- 5 SECONDARY CONTAINMENT WILL BE PROVIDED AROUND THE TANK BATTERY AND SEPARATORS PER COGCC RULES AND REGULATIONS. SECONDARY CONTAINMENT AROUND THE TANK BATTERY WILL INCLUDE A STEEL CONTAINMENT SYSTEM, 30-44 INCHES TALL, WITH EITHER A GEOMEMBRANE TOP MOUNTED OR SPRAY ON LINER
- 6 ADEQUATE BLOWOUT PREVENTION EQUIPMENT SHALL BE PROVIDED FOR DRILLING OPERATIONS AND WELL SERVICING OPERATIONS
- 7 NO DRILLING WASTE (CUTTINGS, ETC.) MAYBE STORED OR KEPT ON THE SITE PERMANENTLY
- 8 MODERN LOW-NOISE DIESEL ENGINES WILL BE USED TO POWER GENERATORS DURING THE DRILLING PHASE OF THE OPERATIONS.
- 9 THE RIG WILL BE AC ELECTRIC. ELECTRICITY FOR THE RIG WILL BE PROVIDED BY DIESEL POWERED GENERATORS
- 10 ALL DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS, OR WITHIN 14 DAYS OF DISTURBANCE IN A GIVEN AREA, WHICHEVER IS MORE RESTRICTIVE.



TYPICAL RIG LAYOUT
NOT TO SCALE



THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN INDEPENDENTLY VERIFIED.

DATA SOURCES:
-PARCELS: WELD COUNTY ASSESSOR
-TOPO IMAGERY: USGS
-EXISTING WELLS: COGCC

PUBLICLY AVAILABLE DATA
SOURCES HAVE NOT BEEN
INDEPENDENTLY VERIFIED
BY ASCENT.


DIG SAFELY
BEFORE YOU DIG CALL:
1-800-922-1987
UTILITY NOTIFICATION
CENTER OF COLORADO

NOTES.

REFERENCE DRAWINGS

REVISIONS



 8620 Wolff Court
Westminster, CO 80031
(303) 928-7128
www.ascenttelematics.com

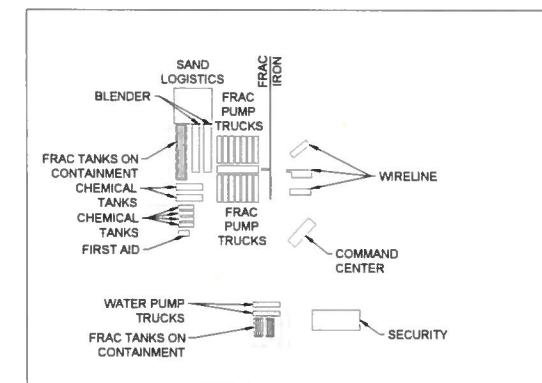
DRILLING PLAN

DRAWN BY: D. POLVERARI		CHECKED BY: K. HARTER	APPROVED: K. HARTER
CREATION DATE: 11/4/2022		CHECKED DATE: 11/4/2022	APPROVED DATE: 11/4/2022
PROJECT No. B20.PDC.0011		DWG No. 103	SHEET No.: 04 OF 25
SCALE: 1" = 100'			

REFERENCE DRAWINGS		REVISIONS						
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DWG. NO.	TITLE	NO.	DESCRIPTION	BY	DATE	BY	DATE	BY



1. TO REDUCE IMPACTS TO AIR QUALITY, GAS GATHERING LINE SYSTEM WILL BE INSTALLED PRIOR TO PRODUCTION OF THE WELLS
2. SILICA DUST SUPPRESSION PRACTICES ARE CONTROLLED USING HALLIBURTON SAND EXPRESS SYSTEM AND SAND BOX TECHNOLOGY TO ELIMINATE ALL AIRBORNE SILICA DUST.
3. MODERN LOW-NOISE DIESEL ENGINES WILL BE USED TO POWER GENERATORS DURING THE COMPLETION PHASE OF THE OPERATIONS
4. ALL DISTURBANCE AREAS SHALL BE STABILIZED IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS, OR WITHIN 14 DAYS OF DISTURBANCE IN A GIVEN AREA, WHICHEVER IS MORE STRINGENT.



COMPLETIONS EQUIPMENT
NOT TO SCALE



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UTILITY NOTIFICATION
CENTER OF COLORADO

NOTES:

REFERENCE DRAWINGS		REVISIONS					
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DWG. NO.	TITLE	NO.	DESCRIPTION	BY	DATE	BY	DATE



 8620 Wolff Court
Westminster, CO 80031
(303) 928-7128
www.ascentgeomatics.com

COMPLETIONS PLAN

DRAWN BY: D. POLVERARI		CHECKED BY: K. HARTER		APPROVED: K. HARTER	
CREATION DATE: 11/4/2022		CHECKED DATE: 11/4/2022		APPROVED DATE: 11/4/2022	
PROJECT No.: B20.PDC 0011		DWG. No. 104		SHEET No. 05 OF 25	
SCALE: 1" = 100'					

DENALI STATE 05N67W13 1-23 PAD
USE BY SPECIAL REVIEW AND CONSTRUCTION DRAWINGS
TOWNSHIP 5 NORTH, RANGE 67 WEST, 6TH P.M., SECTION 13
CITY OF GREELEY, COUNTY OF WELD, STATE OF COLORADO
16.21 ACRES
PROJECT NUMBER: USR2022-0015

- LEGEND
- COMPACTED CLASS 6 ROAD BASE
 - SUBJECT PARCEL
 - SETBACK - PROPOSED OIL & GAS FACILITY
 - EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - PROPOSED MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - MUNICIPAL BOUNDARY
 - EXISTING UNDERGROUND GAS LINE
 - EXISTING UNDERGROUND WATER LINE
 - EXISTING UNDERGROUND ELECTRIC LINE
 - PARCEL LINE
 - PROPOSED EDGE OF ROAD
 - EXISTING EDGE OF ROAD
 - PROPOSED TEMPORARY WATERLINE
 - PROPOSED FENCE
 - EXISTING FENCE
 - EXISTING DITCH
 - EXISTING EDGE OF EASEMENT
 - PROPOSED WELL
 - EXISTING WELL
 - PROPOSED GATE
 - EXISTING MONUMENT

PDC ENERGY

LOCATION NAME: DENALI 05N67W13 1-23 PAD
WELL NAMES:

DENALI 01	DENALI 07	DENALI 13	DENALI 19
DENALI 02	DENALI 08	DENALI 14	DENALI 20
DENALI 03	DENALI 09	DENALI 15	DENALI 21
DENALI 04	DENALI 10	DENALI 16	DENALI 22
DENALI 05	DENALI 11	DENALI 17	DENALI 23
DENALI 06	DENALI 12	DENALI 18	

SITE ADDRESS: 2429 95TH AVE GREELEY, COLORADO 80631
DESCRIPTION: SESS OF SEC 13, T5N, R67W
DRIVING DIRECTIONS: HWY 34 Bypass & 95TH Ave. South on 95TH Ave for 1 MI. Head West on Access Road for 0.5 MI to Location.

CONSTRUCTION OPERATION TO BEGIN ON/AFTER:

IN CASE OF EMERGENCY CALL: 911 OR 977-350-0169

TYPICAL SIGN DETAIL
NOT TO SCALE

GENERAL NOTES:

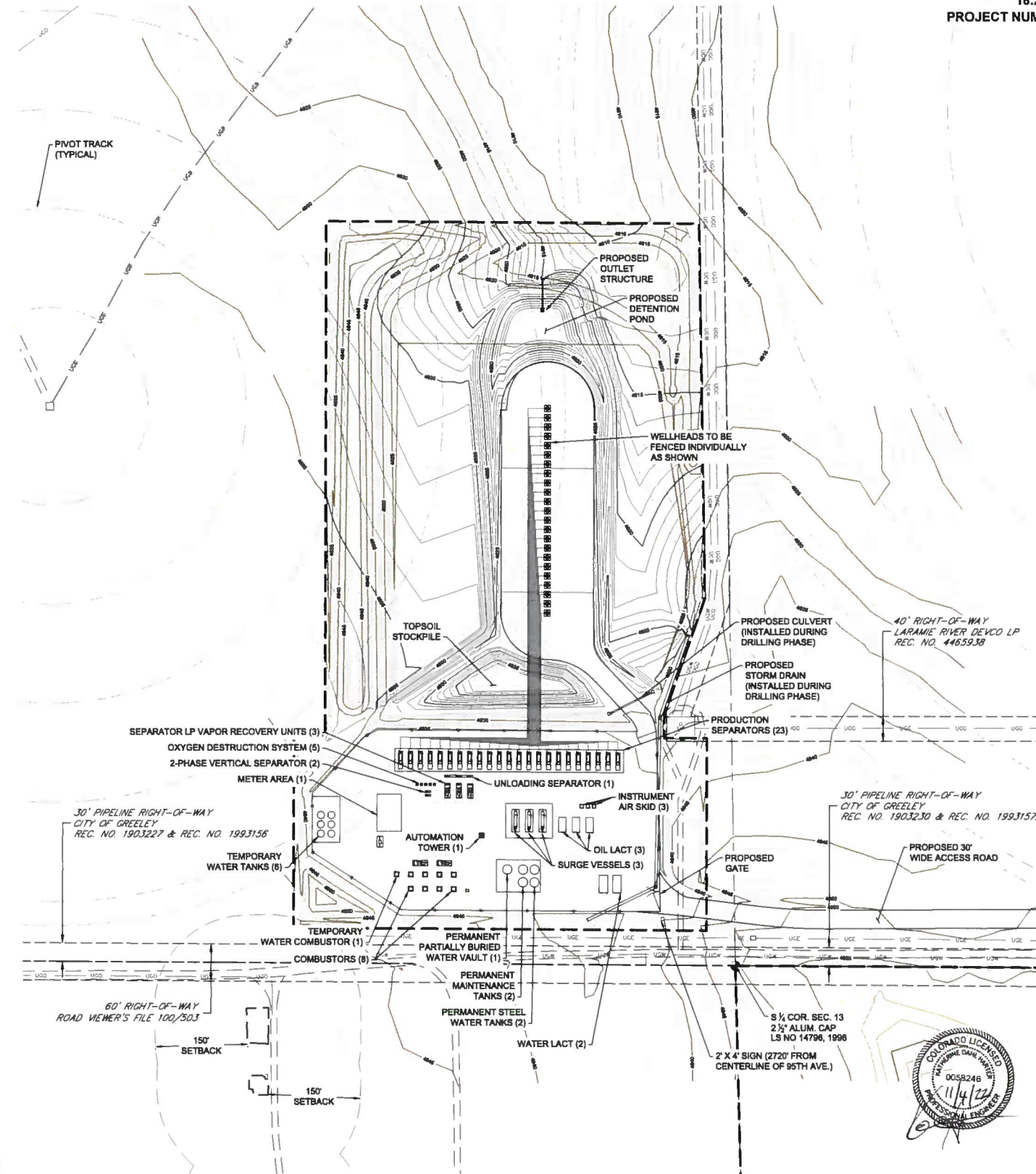
- THE LAYOUT SHOWN ON THIS PLAN REPRESENTS THE PRODUCTION PHASE OF THIS PROJECT AT FULL BUILD OUT. DEPENDING UPON THE NUMBER OF WELLS DRILLED, THE AMOUNT OF PRODUCTION EQUIPMENT MAY VARY.
 - ELECTRICITY WILL INITIALLY BE PROVIDED BY A DIESEL AND/OR NATURAL GAS (NGL) POWERED GENERATOR, UNTIL PERMANENT UTILITY CAN BE INSTALLED. PDC ENERGY EXPECTS PERMANENT UTILITY TO BE INSTALLED WITHIN ONE (1) YEAR OF THE START OF PRODUCTION.
- BEST MANAGEMENT PRACTICES:
- THE SITE WILL BE FENCED IN ACCORDANCE WITH CITY OF GREELEY AND COLORADO OIL AND GAS CONSERVATION COMMISSION (COGCC) REGULATIONS FOR PUBLIC SAFETY. EXTERIOR SITE FENCING AND FENCING OF OIL AND GAS EQUIPMENT WILL BE PROVIDED. SEE PLAN (THIS SHEET) FOR THE LOCATION OF THE FENCE. THE FENCE SHALL BE CHAINLINK, SIX (6) FEET IN HEIGHT.
 - A SIGN SHALL BE INCLUDED AT THE ENTRANCE TO EACH WELL SITE AND PRODUCTION FACILITY THAT DISPLAYS THE SITE OWNER, OPERATOR, RESPONSIBLE PARTY WITH 24 HOUR CONTACT INFORMATION FROM EACH AS WELL AS ADDITIONAL EMERGENCY CONTACTS AS NECESSARY. SEE PLAN (THIS SHEET) FOR SIGN LOCATIONS.
 - THE SITE WILL BE MONITORED DAILY BY THE OPERATOR TO ENSURE OPERATIONS ARE FUNCTIONING PROPERLY. DAILY REPORTS CONSIST OF TANK MEASUREMENTS, GAS PRODUCTION ESTIMATES, PRESSURE READINGS, AND GENERAL FACILITY CARE AND MAINTENANCE.
 - THE OPERATIONS OF THE FACILITY WILL BE EQUIPPED WITH AUTOMATION ALLOWING THE OPERATOR TO MONITOR ALL PRODUCTION OPERATIONS REMOTELY. IN THE EVENT THAT THE FACILITY IS NOT OPERATING UNDER NORMAL CONDITIONS, THE AUTOMATION SYSTEM WILL IMMEDIATELY NOTIFY THE OPERATOR. THE AUTOMATION SYSTEM ALSO HAS THE ABILITY TO REMOTELY PERFORM AN EMERGENCY SHUT DOWN IF NECESSARY.
 - EMISSION CONTROL DEVICES (ECD) AND VAPOR RECOVERY UNITS (VRU) WILL BE INSTALLED. BOTH UNITS FUNCTION TO REDUCE VOLATILE ORGANIC COMPOUND (VOC) EMISSIONS THAT ARE GENERATED FROM THE CRUDE OIL CONDENSATE TANKS. THE ECD AND VRU DEVICES REDUCE VOC EMISSIONS BY AT LEAST 95% THROUGH COMBUSTION AND SEQUESTRATION.
 - REGULAR FUGITIVE EMISSIONS AIR QUALITY AND GENERAL FACILITY INSPECTIONS WILL BE CONDUCTED BY PDC ENERGY, INC. STAFF, OR A CONTRACT ENVIRONMENTAL COMPLIANCE SPECIALIST, TO COMPLY WITH THE CDPHA-APCD REGULATION 7 LEAK DETECTION AND REPAIR (LDAR) PROGRAM FOR FUGITIVE EMISSIONS AT WELL PRODUCTION FACILITIES, INCLUDING THE FOLLOWING:
 - AUDIO / VISUAL / OLFACTORY INSPECTIONS FOR LEAKS NO LESS FREQUENTLY THAN ONCE PER MONTH.
 - INSPECTION OF WELL PRODUCTION FACILITIES WITH A FORWARD LOOKING INFRARED (FLIR) OPTICAL IMAGING CAMERA, EPA METHOD 21 (INSTRUMENT DETECTOR) OR OTHER APCD APPROVED INSTRUMENT MONITORING METHOD. THE FREQUENCY OF THESE INSPECTIONS ARE SPECIFIED IN REG. 7 BASED ON FACILITY THROUGHPUT.
 - PROMPT LEAK REPAIR WITHIN THE DEADLINES SPECIFIED IN APCD REG. 7.
 - RE-MONITORING OF REPAIRED LEAKS USING AN APCD APPROVED INSTRUMENT MONITORING METHOD TO VERIFY THAT THE REPAIR WAS EFFECTIVE.
 - MAINTENANCE OF DOCUMENTATION OF THE LEAK DETECTION REPAIR INSPECTIONS AS REQUIRED BY APCD REG. 7, INCLUDING:
 - DOCUMENTATION OF THE INITIAL INSPECTION
 - DATE AND SITE INFORMATION FOR EACH INSPECTION
 - A LIST OF LEAKING COMPONENTS REQUIRING REPAIR AND THE MONITORING METHODS USED TO DETERMINE THE PRESENCE OF A LEAK
 - DATE OF THE FIRST ATTEMPT TO REPAIR THE LEAK AND, IF NECESSARY, ANY ADDITIONAL ATTEMPT TO REPAIR THE LEAK
 - DATE THE LEAK WAS REPAIRED
 - A LIST OF REPAIRS THAT WERE DELAYED DUE TO UNAVAILABLE PARTS, REQUIRED SHUTDOWN, OR DELAY FOR OTHER GOOD CAUSE
 - DATE THE LEAK WAS RE-MONITORED TO VERIFY THE EFFECTIVENESS OF THE REPAIR, AND THE RESULTS OF THE RE-MONITORING
 - ANNUAL REPORTING TO THE APCD OF INFORMATION REGARDING LEAK DETECTION AND REPAIR ACTIVITIES AS REQUIRED BY APCD REG. 7.
 - THE OPERATOR HAS DEVELOPED AN EMERGENCY RESPONSE AND FIRE PROTECTION PLAN SPECIFIC TO THIS SITE.
 - SECONDARY CONTAINMENT WILL BE PROVIDED AROUND THE TANK BATTERY AND SEPARATORS PER COGCC RULES AND REGULATIONS. SECONDARY CONTAINMENT AROUND THE TANK BATTERY WILL INCLUDE A STEEL CONTAINMENT SYSTEM, 30-44 INCHES TALL, WITH EITHER A GEOMEMBRANE TOP MOUNTED OR SPRAY ON LINER.
 - ANY MATERIAL NOT IN USE THAT MIGHT CONSTITUTE A FIRE HAZARD SHALL BE PLACED A MINIMUM OF TWENTY-FIVE (25) FEET FROM THE WELLHEAD, TANKS, AND SEPARATORS. WITHIN NINETY (90) DAYS AFTER A WELL IS PLUGGED AND ABANDONED, THE WELL SITE SHALL BE CLEARED OF ALL NONESSENTIAL EQUIPMENT.
 - THE OPERATOR SHALL IDENTIFY THE LOCATION OF THE PLUGGED AND ABANDONED WELLS WITH A PERMANENT MONUMENT WHICH SHALL INCLUDE THE WELL NUMBER AND DATE OF PLUGGING INSCRIBED ON THE MONUMENT.
 - AFTER SITE INTERIM RECLAMATION IS COMPLETE, ALL PUMPS, PITS, WELLHEADS AND PRODUCTION FACILITIES MUST BE ADEQUATELY FENCED TO RESTRICT ACCESS BY UNAUTHORIZED PERSONS. FOR SECURITY PURPOSES, ALL SUCH FACILITIES AND EQUIPMENT USED IN THE OPERATION OF A COMPLETED WELL MUST BE SURROUNDED BY A CHAINLINK FENCE SIX (6) FEET IN HEIGHT, OF NONCOMBUSTIBLE MATERIAL, AND WHICH MUST INCLUDE A GATE THAT SHALL BE LOCKED.
 - THE OPERATOR SHALL UTILIZE LEASE AUTOMATED CUSTODY TRANSFER (LACT) METERS DURING THE PRODUCTION PHASE.
 - THE OPERATION SHALL COMPLY WITH THE CITY OF GREELEY NOISE REGULATIONS, IN ACCORDANCE WITH TITLE 12, CHAPTER 6 OF THE CITY OF GREELEY MUNICIPAL CODE AS IS CONSISTENT WITH THE RULES AND REGULATIONS OF THE COLORADO OIL AND GAS CONSERVATION COMMISSION (COGCC).





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<div>DIG SAFELY BEFORE YOU DIG CALL: 1-800-922-1987 UTILITY NOTIFICATION CENTER OF COLORADO</div>	NOTES:	REFERENCE DRAWINGS		REVISIONS						<div><div>PDC ENERGY</div></div> <div><div>8620 Wolff Court Westminster, CO 80031 (303) 928-7128 www.ascengeomatics.com</div></div>		PRODUCTION PLAN			
						DP		KH		KH		DRAWN BY: D. POLVERARI			
						11/4/22		11/4/22		11/4/22		CREATION DATE 11/4/2022			
						BY DATE		BY DATE		BY DATE		CHECKED DATE: 11/4/2022			
												APPROVED DATE: 11/4/2022			
												DWG No.: 105			
												PROJECT No.: B20.PDC.0011			
												SCALE: 1" = 100'			
												SHEET No.: 06 OF 25			