

**FACILITY PAD - MOSER FED 3-21HZ  
FACILITY DESIGN SUMMARY**

**PAD QUANTITIES AND DESIGN PARAMETERS**

CUT SLOPES = 5:1  
 FILL SLOPES = 5:1  
 SHRINKAGE FACTOR = 1.10  
 SWELL FACTOR = 1.00  
 GRADED FACILITY PAD AREA = 1.82 ACRES  
 TOTAL FACILITY PAD AREA = 2.04 ACRES

**FACILITY PAD QUANTITIES**

TOTAL CUT FOR FACILITY PAD = 1,897 C.Y.  
 TOTAL FILL FOR FACILITY PAD = 890 C.Y.  
 TOPSOIL @ 8" DEPTH = 2,190 C.Y.  
 TOTAL EXPORT = 1,007 C.Y.

**TEMPORARY EQUIPMENT PAD -  
MOSER FED 3-21HZ DESIGN SUMMARY**

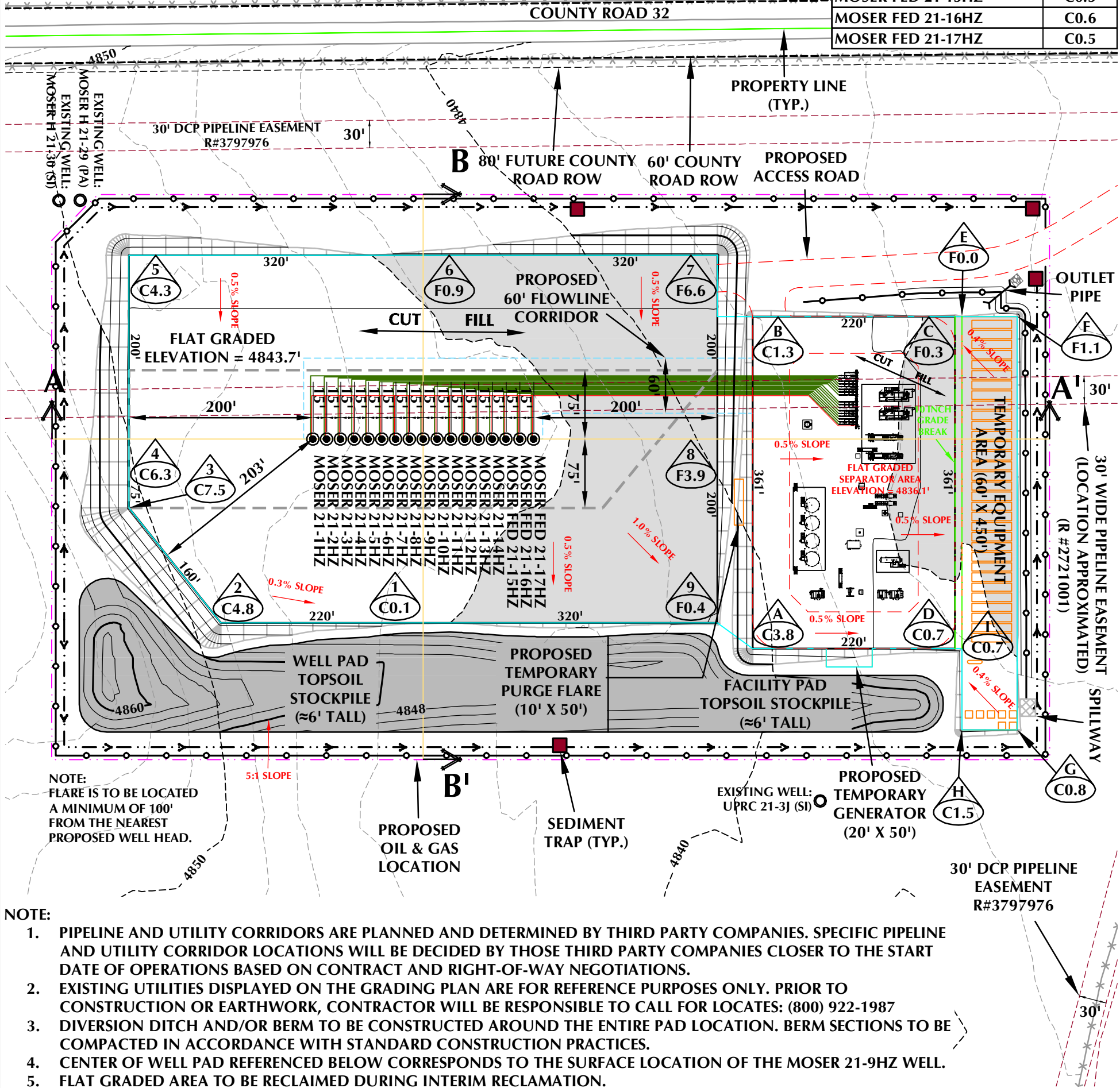
**PAD QUANTITIES AND DESIGN PARAMETERS**

CUT SLOPES = 5:1  
 FILL SLOPES = 5:1  
 SHRINKAGE FACTOR = 1.10  
 SWELL FACTOR = 1.00  
 GRADED PAD AREA = 0.62 ACRES  
 TOTAL PAD AREA = 0.72 ACRES

**PAD QUANTITIES**

TOTAL CUT FOR PAD = 53 C.Y.  
 TOTAL FILL FOR PAD = 1,060 C.Y.  
 TOPSOIL @ 8" DEPTH = 777 C.Y.  
 TOTAL IMPORT = 1,007 C.Y.

WELL NAME:	C/F
MOSER 21-1HZ	C2.8
MOSER 21-2HZ	C2.8
MOSER 21-3HZ	C2.6
MOSER 21-4HZ	C2.3
MOSER 21-5HZ	C1.8
MOSER 21-6HZ	C1.8
MOSER 21-7HZ	C1.6
MOSER 21-8HZ	C1.3
MOSER 21-9HZ	C1.1
MOSER 21-10HZ	C1.0
MOSER 21-11HZ	C0.9
MOSER 21-12HZ	C0.8
MOSER 21-13HZ	C0.8
MOSER 21-14HZ	C0.7
MOSER FED 21-15HZ	C0.5
MOSER FED 21-16HZ	C0.6
MOSER FED 21-17HZ	C0.5



NOTE:  
 FLARE IS TO BE LOCATED  
 A MINIMUM OF 100'  
 FROM THE NEAREST  
 PROPOSED WELL HEAD.

- NOTE:
- PIPELINE AND UTILITY CORRIDORS ARE PLANNED AND DETERMINED BY THIRD PARTY COMPANIES. SPECIFIC PIPELINE AND UTILITY CORRIDOR LOCATIONS WILL BE DECIDED BY THOSE THIRD PARTY COMPANIES CLOSER TO THE START DATE OF OPERATIONS BASED ON CONTRACT AND RIGHT-OF-WAY NEGOTIATIONS.
  - EXISTING UTILITIES DISPLAYED ON THE GRADING PLAN ARE FOR REFERENCE PURPOSES ONLY. PRIOR TO CONSTRUCTION OR EARTHWORK, CONTRACTOR WILL BE RESPONSIBLE TO CALL FOR LOCATES: (800) 922-1987
  - DIVERSION DITCH AND/OR BERM TO BE CONSTRUCTED AROUND THE ENTIRE PAD LOCATION. BERM SECTIONS TO BE COMPACTED IN ACCORDANCE WITH STANDARD CONSTRUCTION PRACTICES.
  - CENTER OF WELL PAD REFERENCED BELOW CORRESPONDS TO THE SURFACE LOCATION OF THE MOSER 21-9HZ WELL.
  - FLAT GRADED AREA TO BE RECLAIMED DURING INTERIM RECLAMATION.

**MOSER FED 3-21HZ CONSTRUCTION LAYOUT DRAWING - PLAN VIEW**

**WELL PAD QUANTITIES AND DESIGN PARAMETERS**

EXISTING GRADE @ CENTER OF WELL PAD = 4844.8'  
 FINISHED GRADE ELEVATION = 4843.7'  
 CUT SLOPES = 5:1  
 FILL SLOPES = 5:1  
 SHRINKAGE FACTOR = 1.10  
 SWELL FACTOR = 1.00  
 GRADED WELL PAD SURFACE AREA = 5.73 ACRES  
 TOTAL WELL PAD AREA = 6.67 ACRES  
 PROPOSED OIL & GAS LOCATION = 15.29 ACRES

**WELL PAD QUANTITIES**

TOTAL CUT FOR WELL PAD = 11,971 C.Y.  
 TOTAL FILL FOR WELL PAD = 11,971 C.Y.  
 TOPSOIL @ 8" DEPTH = 7,176 C.Y.  
 EXPORT MATERIAL = 0 C.Y.  
**TOTAL DISTURBANCE AREA**  
 OIL & GAS LOCATION = 15.29 ACRES  
 WORKING PAD SURFACE = 8.57 ACRES  
 ACCESS ROAD = 0.75 ACRES  
 PIPELINE/UTILITY CORRIDOR = SEE NOTE 1  
 FACILITY REVISION: MOSER-PP-2020 REV D

**LEGEND**

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- EPL - EXISTING PIPELINE
- PROPOSED FLOWLINE
- EXISTING FENCE
- PROPOSED UNDERGROUND ELECTRIC LINE
- DIVERSION DITCH AND/OR BERM
- BERM
- WORKING PAD SURFACE (WPS)

2' CONTOURS 0 60' 120'  
 HORIZONTAL 1" = 120'

SCALE: 1"=120' DATE: 12/22/21 SHEET NO:  
 REVISED: GLK 6/3/22 1 OF 1

**PAD - MOSER FED 3-21HZ**

CONSTRUCTION LAYOUT DRAWING - PLAN VIEW  
 MOSER 21-1HZ, MOSER 21-2HZ, MOSER 21-3HZ, MOSER 21-4HZ,  
 MOSER 21-5HZ, MOSER 21-6HZ, MOSER 21-7HZ, MOSER 21-8HZ,  
 MOSER 21-9HZ, MOSER 21-10HZ, MOSER 21-11HZ, MOSER 21-12HZ,  
 MOSER 21-13HZ, MOSER 21-14HZ, MOSER FED 21-15HZ,  
 MOSER FED 21-16HZ & MOSER FED 21-17HZ  
 LOCATED IN SECTION 21, T3N, R65W, 6TH P.M.  
 WELD COUNTY, COLORADO

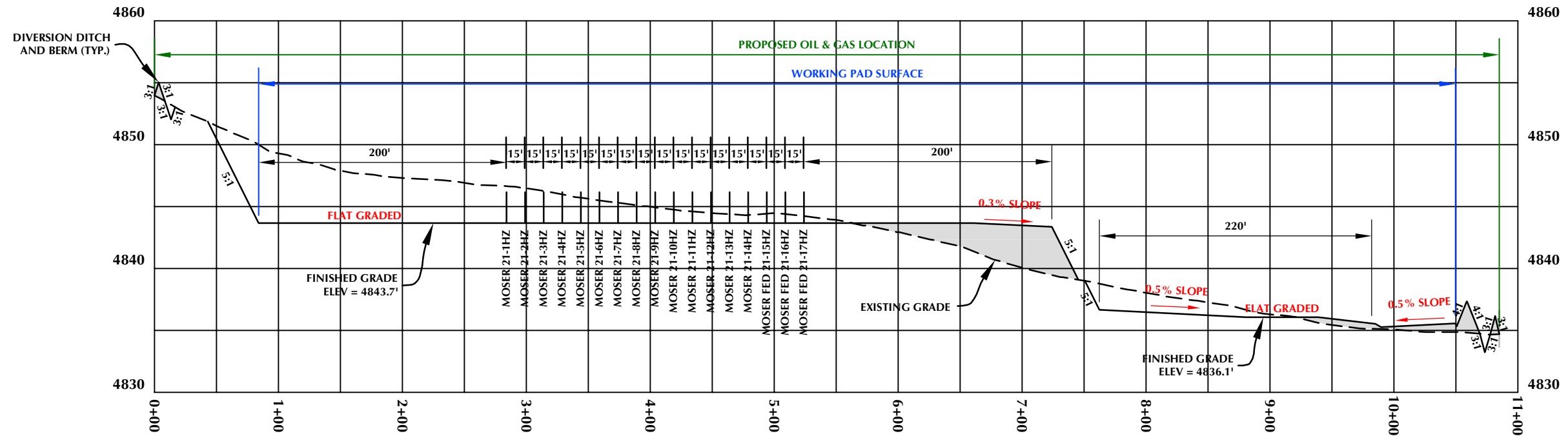
**Kerr-McGee Oil &  
Gas Onshore LP**  
 1099 18th Street  
 Denver, Colorado 80202

**609 CONSULTING, LLC**

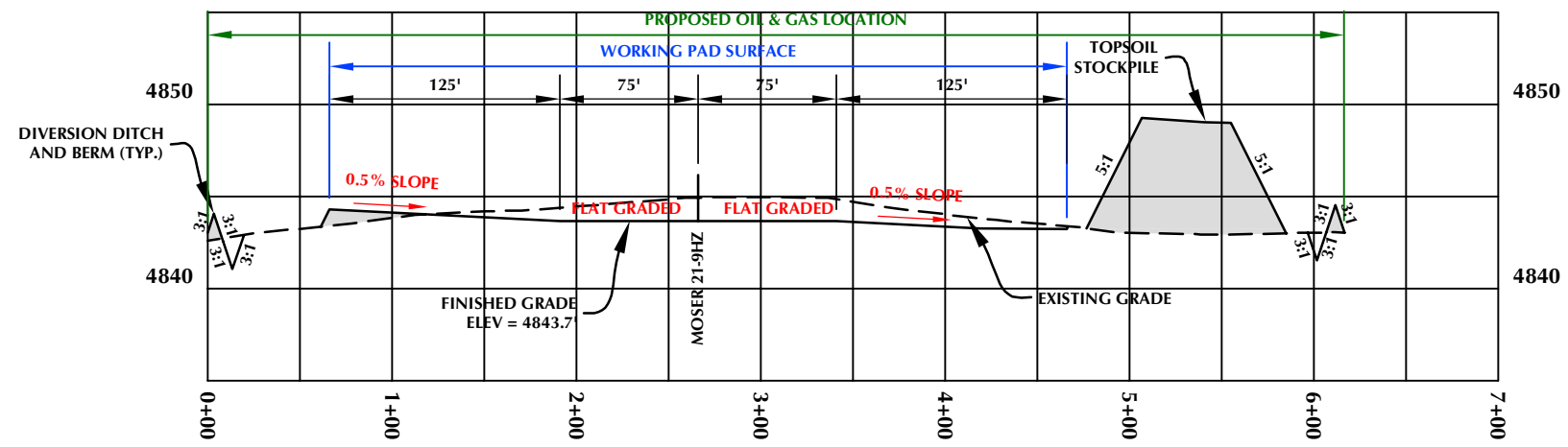
LOVELAND OFFICE  
 6706 North Franklin Avenue  
 Loveland, Colorado 80538  
 Phone 970-776-4331

SHERIDAN OFFICE  
 1095 Saberton Avenue  
 Sheridan, Wyoming 82801  
 Phone 307-674-0609

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**CROSS SECTION A-A'**



**CROSS SECTION B-B'**

MOSER FED 3-21HZ

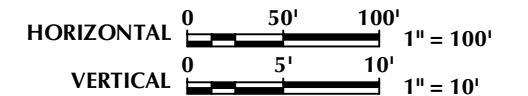
MOSER 21-1HZ, MOSER 21-2HZ, MOSER 21-3HZ, MOSER 21-4HZ,  
 MOSER 21-5HZ, MOSER 21-6HZ, MOSER 21-7HZ, MOSER 21-8HZ,  
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 MOSER 21-13HZ, MOSER 21-14HZ, MOSER FED 21-15HZ,  
 MOSER FED 21-16HZ & MOSER FED 21-17HZ  
 LOCATED IN SECTION 21, T3N, R65W, 6TH P.M.  
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**CONSTRUCTION LAYOUT DRAWING - CROSS SECTIONS**

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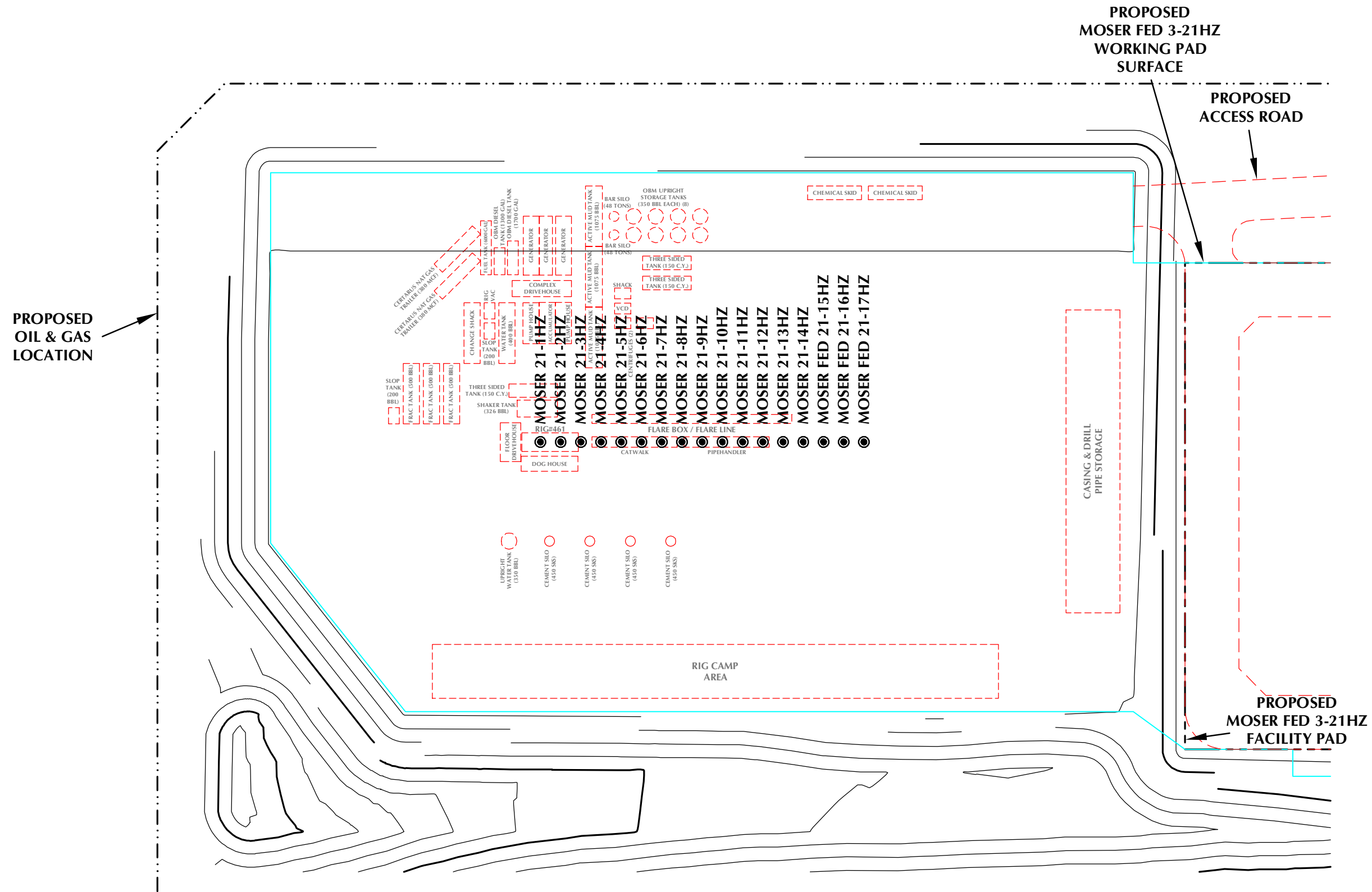
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SCALE: 1"=100'	DATE: 4/1/22	SHEET NO:
REVISED:	GLK 6/3/22	<b>1</b> 1 OF 1

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**PRELIMINARY RIG LAYOUT DRAWING**  
**MOSER FED 3-21HZ**  
 NE1/4 NW1/4 SECTION 21, TOWNSHIP 3 NORTH, RANGE 65 WEST, 6TH P.M. WELD COUNTY, COLORADO



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**LEGEND**

	PROPOSED WELL
	EXISTING WELL
	PROPOSED OIL & GAS LOCATION
	PROPOSED WORKING PAD SURFACE
	PROPOSED 2' CONTOUR

  
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 Phone 970-776-4331

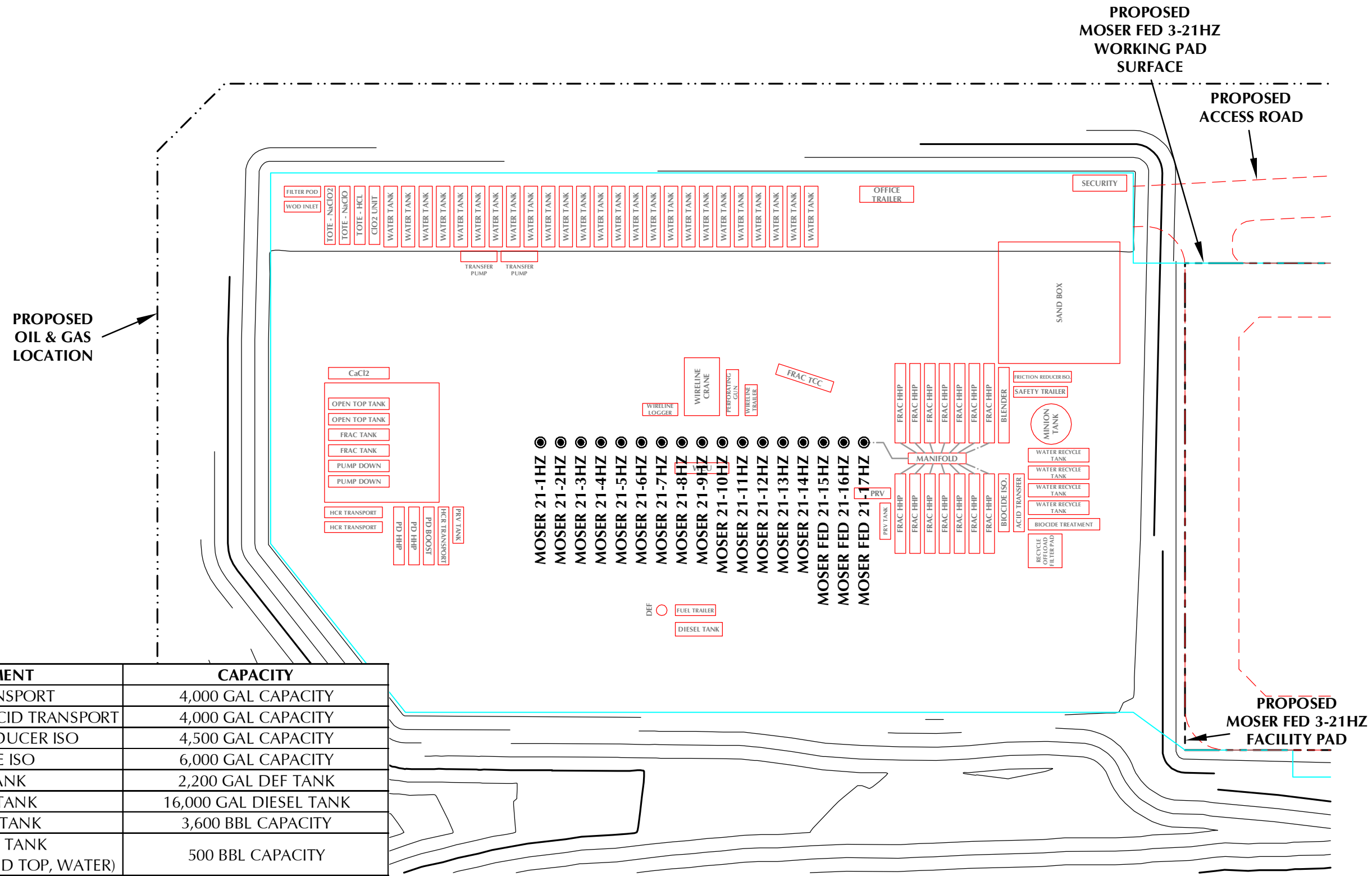
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DATE SURVEYED:	3/3/22
DATE:	4/1/22
DRAFTER:	GLK
REVISED:	6/3/22

NOTES:

**PRELIMINARY WELL COMPLETION AND STIMULATION LAYOUT DRAWING**  
**MOSER FED 3-21HZ**  
 NE1/4 NW1/4 SECTION 21, TOWNSHIP 3 NORTH, RANGE 65 WEST, 6TH P.M. WELD COUNTY, COLORADO



EQUIPMENT	CAPACITY
ACID TRANSPORT	4,000 GAL CAPACITY
HCR SYNTHETIC ACID TRANSPORT	4,000 GAL CAPACITY
FRICTION REDUCER ISO	4,500 GAL CAPACITY
BIOCIDE ISO	6,000 GAL CAPACITY
DEF TANK	2,200 GAL DEF TANK
DIESEL TANK	16,000 GAL DIESEL TANK
MINION TANK	3,600 BBL CAPACITY
STORAGE TANK (OPEN TOP, CLOSED TOP, WATER)	500 BBL CAPACITY
WATER RECYCLE TANK	500 BBL CAPACITY

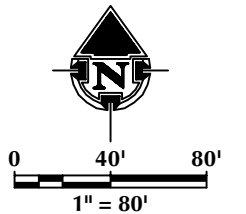
**LEGEND**  
 ● PROPOSED WELL  
 ○ EXISTING WELL  
 - - - PROPOSED OIL & GAS LOCATION  
 [ ] PROPOSED WORKING PAD SURFACE  
 [ ] PROPOSED 2' CONTOUR

  
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DATE SURVEYED: 3/3/22  
 DATE: 4/1/22  
 DRAFTER: GLK  
 REVISED: 6/3/22

NOTES:



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PRELIMINARY FLOWBACK EQUIPMENT LAYOUT DRAWING

MOSER FED 3-21HZ

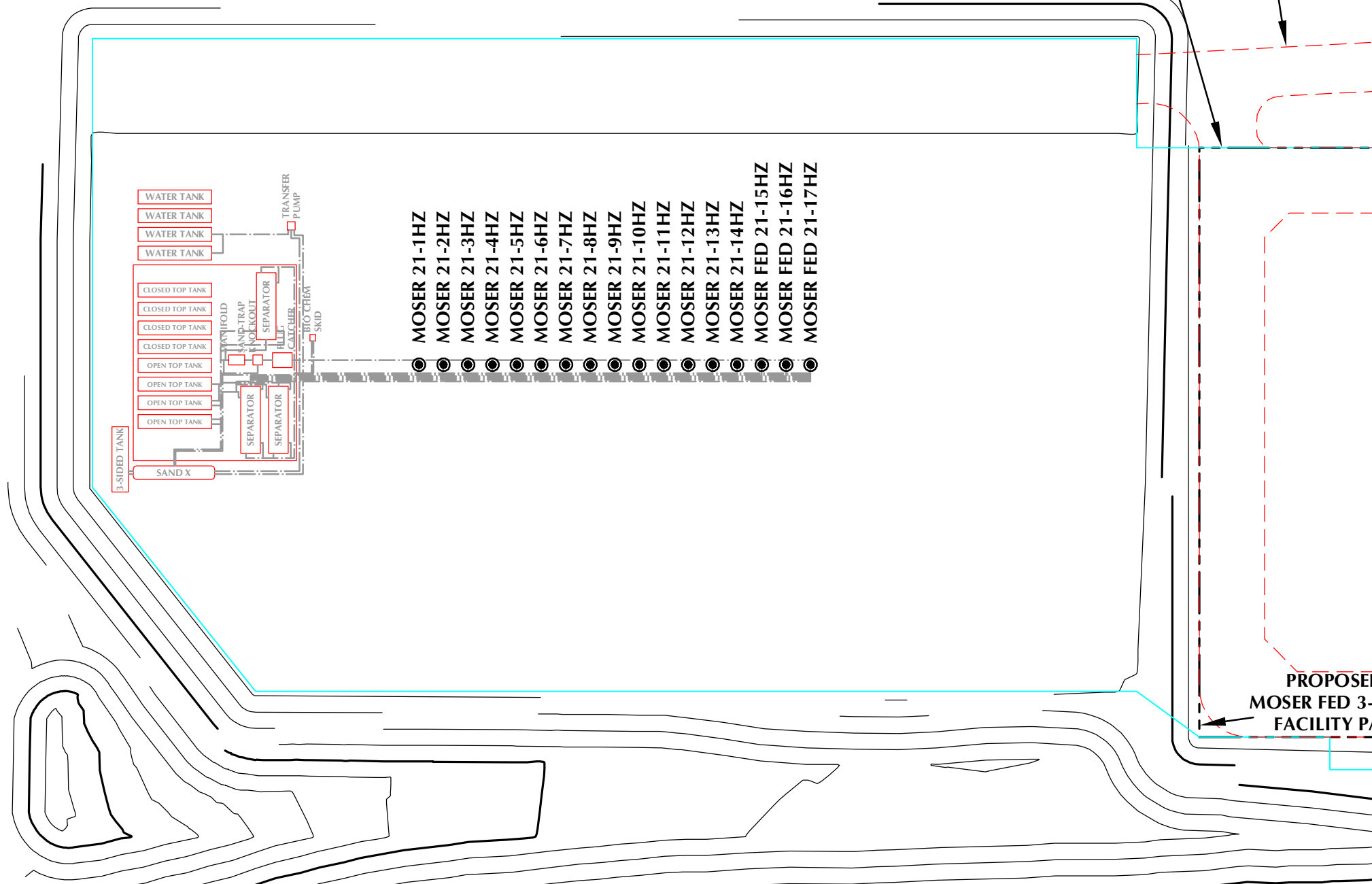
NE1/4 NW1/4 SECTION 21, TOWNSHIP 3 NORTH, RANGE 65 WEST, 6TH P.M. WELD COUNTY, COLORADO

EQUIPMENT	CAPACITY
STORAGE TANK (OPEN TOP, CLOSED TOP, WATER)	500 BBL CAPACITY

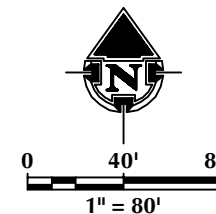
PROPOSED OIL & GAS LOCATION

PROPOSED MOSER FED 3-21HZ WORKING PAD SURFACE

PROPOSED ACCESS ROAD



PROPOSED MOSER FED 3-21HZ FACILITY PAD



**LEGEND**

	PROPOSED WELL
	EXISTING WELL
	PROPOSED OIL & GAS LOCATION
	PROPOSED WORKING PAD SURFACE
	PROPOSED 2' CONTOUR
	PROPOSED PIPELINE

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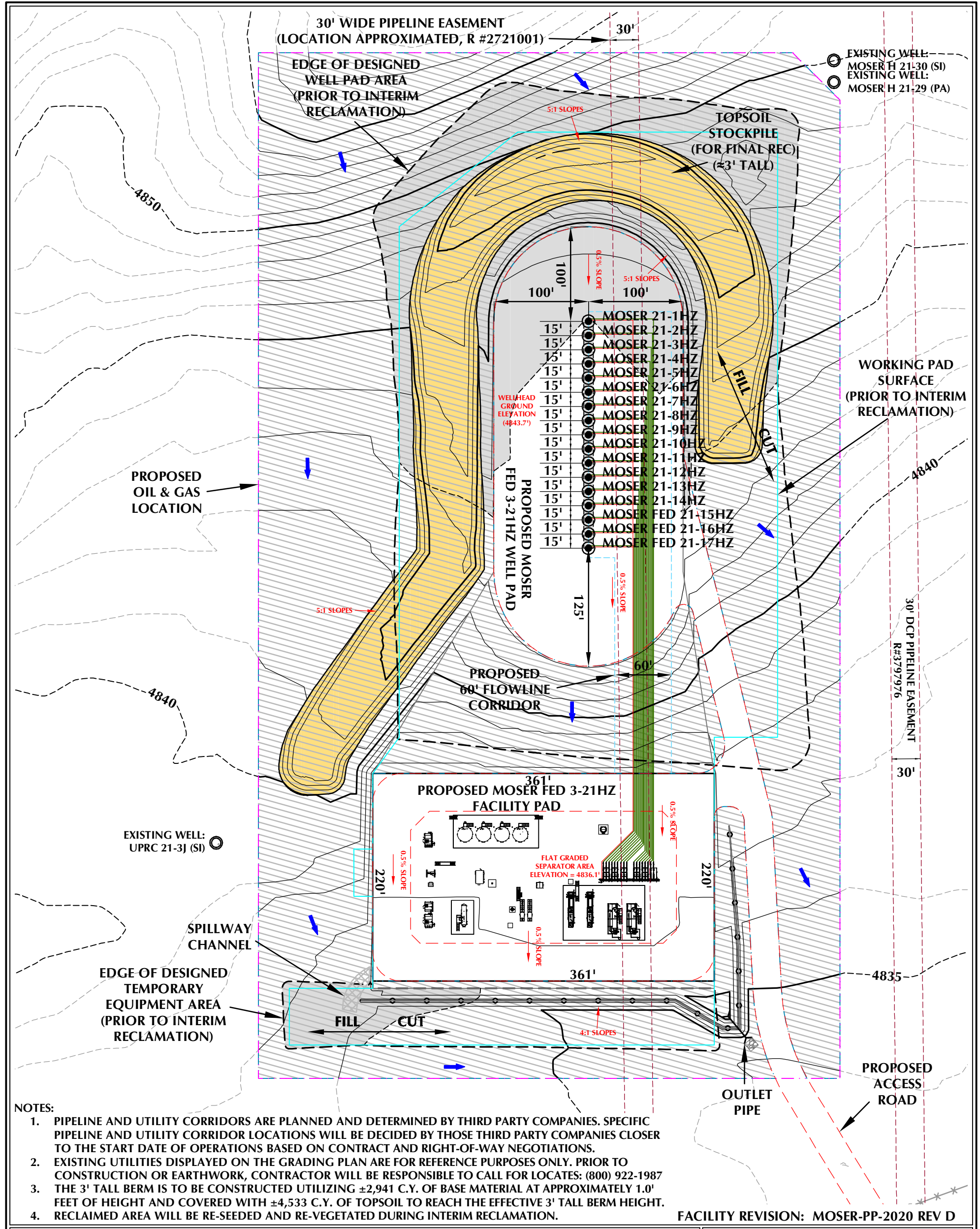
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DATE SURVEYED:	3/3/22
DATE:	4/1/22
DRAFTER:	GLK
REVISED:	6/3/22

**NOTES:**  
-WELLHEADS WILL REMAIN PERMANENTLY AFTER FLOWBACK IS COMPLETE. ALL OTHER EQUIPMENT DISPLAYED IS TEMPORARY AND WILL BE REMOVED FOLLOWING FLOWBACK OPERATIONS.

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**PAD - MOSER FED 3-21HZ FACILITY LAYOUT DRAWING**

**QUANTITIES AND DESIGN PARAMETERS**

SHRINKAGE FACTOR = 1.00  
 SWELL FACTOR = 1.00  
 PROPOSED OIL & GAS LOCATION = 15.29 ACRES  
 AREA RECLAIMED DURING INTERIM RECLAMATION = 11.08 ACRES  
 TOTAL WELL PAD AREA AFTER INTERIM RECLAMATION = 2.39 ACRES  
 TOTAL FACILITY PAD AREA AFTER INTERIM RECLAMATION = 1.82 ACRES

**WELL/FACILITY PAD QUANTITIES**

TOTAL CUT = 13,894 C.Y.  
 TOTAL FILL = 13,894 C.Y.  
 TOTAL EXPORT = 0 C.Y.  
 TOPSOIL @ 8" DEPTH FROM WELL PAD = 7,176 C.Y.  
 TOPSOIL @ 8" DEPTH FROM FACILITY/TEMP EQUIPMENT PADS = 2,967 C.Y.  
 TOTAL TOPSOIL = 10,143 C.Y.  
 TOPSOIL USED FOR INTERIM REC = 5,610 C.Y.  
 TOPSOIL STORED FOR FINAL REC = 4,533 C.Y.  
 LAND USE: RANGELAND

**PAD - MOSER FED 3-21HZ**

FACILITY LAYOUT DRAWING  
 MOSER 21-1HZ, MOSER 21-2HZ, MOSER 21-3HZ, MOSER 21-4HZ,  
 MOSER 21-5HZ, MOSER 21-6HZ, MOSER 21-7HZ, MOSER 21-8HZ,  
 MOSER 21-9HZ, MOSER 21-10HZ, MOSER 21-11HZ, MOSER 21-12HZ,  
 MOSER 21-13HZ, MOSER 21-14HZ, MOSER FED 21-15HZ,  
 MOSER FED 21-16HZ & MOSER FED 21-17HZ  
 LOCATED IN SECTION 21, T3N, R65W, 6TH P.M.  
 WELD COUNTY, COLORADO

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**LEGEND**

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- EXISTING CONTOURS (1' INTERVAL)
- PROPOSED CONTOURS (1' INTERVAL)
- EPL - EXISTING PIPELINE
- PROPOSED FLOWLINE
- EXISTING FENCE
- RECLAMATION AREA
- PLANNED FLOW DIRECTION
- DIVERSION DITCH
- BERM

**0 50' 100' 1" = 100'**

**1' CONTOURS**

SCALE: 1"=100' DATE: 4/1/22 SHEET NO: 1 OF 2

REVISED: HJL 6/3/22

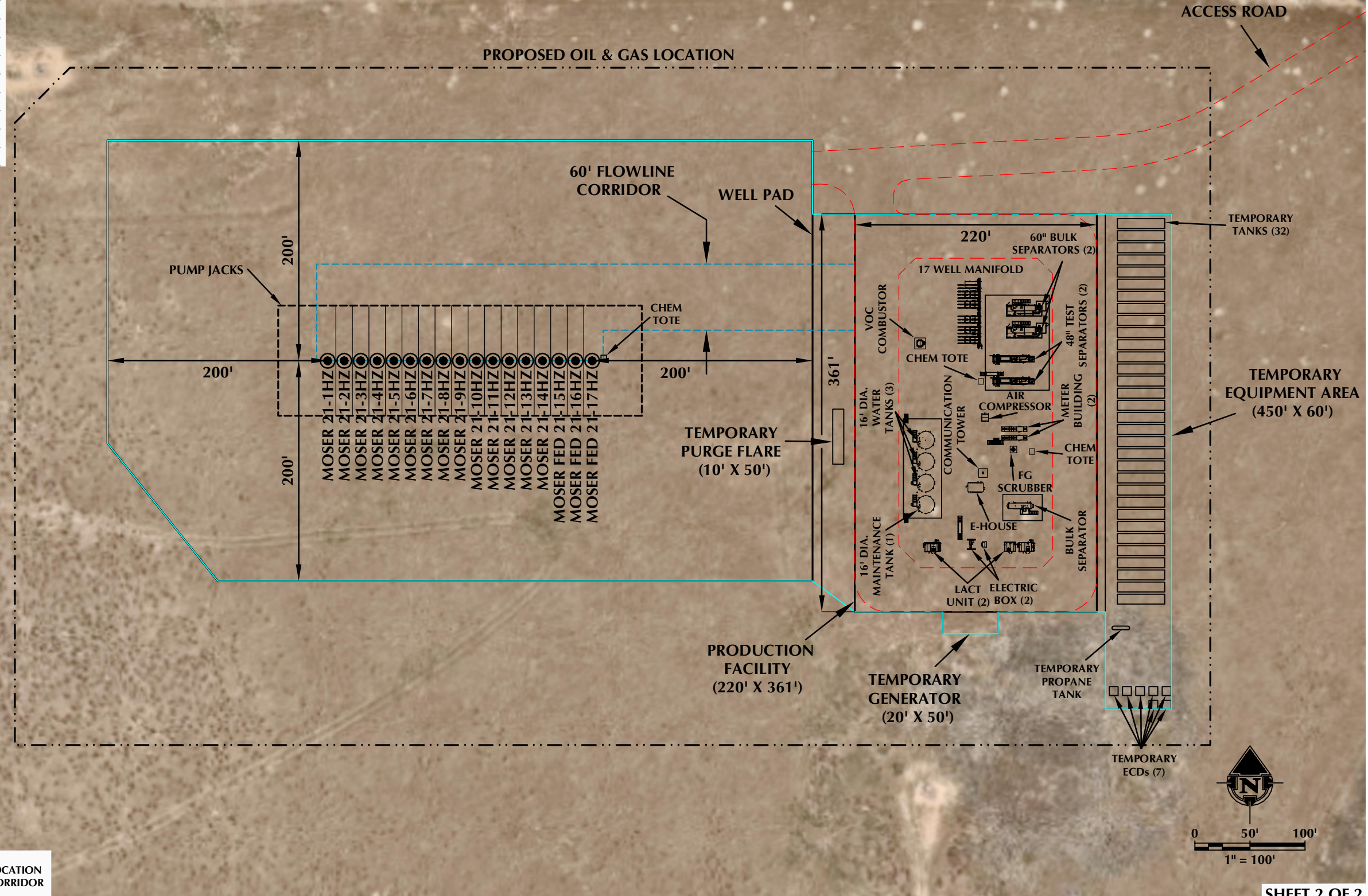
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**DISTANCE FROM WORKING PAD SURFACE TO:**

BUILDING	±3093' E
RESIDENTIAL BUILDING UNIT (RBU)	±3126' E
HIGH OCCUPANCY BUILDING UNIT (HOBU)	5280'+ W
DESIGNATED OUTSIDE ACTIVITY AREA	5280'+ W
PUBLIC ROAD	±228' N
ABOVE GROUND UTILITY	±5024' SE
RAILROAD	5280'+ W
PROPERTY LINE	±240' N
SCHOOL FACILITY	5280'+ W
CHILD CARE CENTER	5280'+ W
DISPROPORTIONATELY IMPACTED (DI) COMMUNITY	5280'+ W
RBU, HOBU, OR SCHOOL FACILITY WITHIN A DI COMMUNITY	5280'+ W

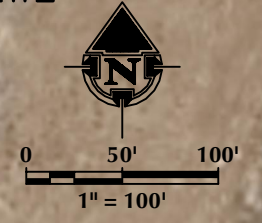
**DISTANCE FROM NEAREST WELL TO:**

TEMPORARY WATER TANK	±477' E
PERMANENT WATER TANK	±303' E
PERMANENT MAINTENANCE TANK	±322' E
SEPARATOR	±364' E
TEMPORARY PURGE FLARE	±223' E
TEMPORARY ECD	±555' SE
VOC COMBUSTOR	±293' E
WORKING PAD SURFACE	±200' W



**LEGEND:**

	PROPOSED WELL		PROPOSED OIL & GAS LOCATION
	ROAD PROPOSED		PROPOSED FLOWLINE CORRIDOR
	WORKING PAD SURFACE		



SHEET 2 OF 2

**NOTES:**

- EQUIPMENT PLACEMENT IS APPROXIMATE AND SUBJECT TO MINOR MODIFICATION DUE TO SPECIFIC CIRCUMSTANCES.
- FLOWLINE CORRIDOR IS APPROXIMATE AND SUBJECT TO MINOR MODIFICATION DUE TO SPECIFIC CIRCUMSTANCES.

**FACILITY COORDINATES:**  
LAT: 40.216813° LONG: -104.670031° (NAD83)

**DATA SOURCES:**  
- AERIAL COURTESY OF NEARMAP

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SCALE: 1" = 100'  
DATE SURVEYED: 3/3/22  
DATE: 4/1/22  
DRAFTER: GLK  
REVISED: 5/10/22

**FACILITY LAYOUT DRAWING**  
MOSER FED 3-21HZ  
LOCATED IN SECTION 21, T3N, R65W, 6TH P.M.  
WELD COUNTY, COLORADO

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