Module 1 Lesson 2 – Conducting Action Research

EXERCISE 3 – Review Interim Reclamation Layout and Completion Report

Introduction:

As an environmental/surface inspector, you would review all official documentation (i.e., APD, COAs, Sundries, etc.) during action research before conducting an inspection. For this exercise, we are focusing on the review of the interim reclamation layout and completion report for action research prior to an environmental/surface – interim reclamation (ES-IR) inspection.

Exercise Instructions:

- This is an individual exercise.
- Imagine it is December 15, 2011 and it has been a dry winter with little to no snowfall. You are looking through your cuff record or Excel spreadsheet of wells to inspect in December. You find that you conducted an ES-SD inspection at the Miles 10D1-27-722 well site several months ago. You review your ES-SD inspection documentation and discover that this was the last well to be drilled on this well location. You verify in AFMSS that no other APDs were submitted for this location and that all wells on this well site are in a "producing gas well" (PGW) status.
- You are now planning for an Interim Reclamation (IR) inspection at the well site on BLM-managed land on a Federal lease. Imagine you are conducting action research for this upcoming inspection. You are now at the step in the action research process where you are reviewing the APD interim reclamation layout from the official well file (see attached). You also find the completion report in the official well file (see attached).
- Review the attached interim reclamation layout and completion report.
- Take notes of any items of interest that might be relevant to an upcoming environmental/ surface inspection. Items of interest should be important information to verify compliance during the inspection (i.e., IR areas, etc.).
- Also note what date you plan to perform this ES-IR inspection.
- At the next webinar, students will be asked a series of questions related to this exercise.

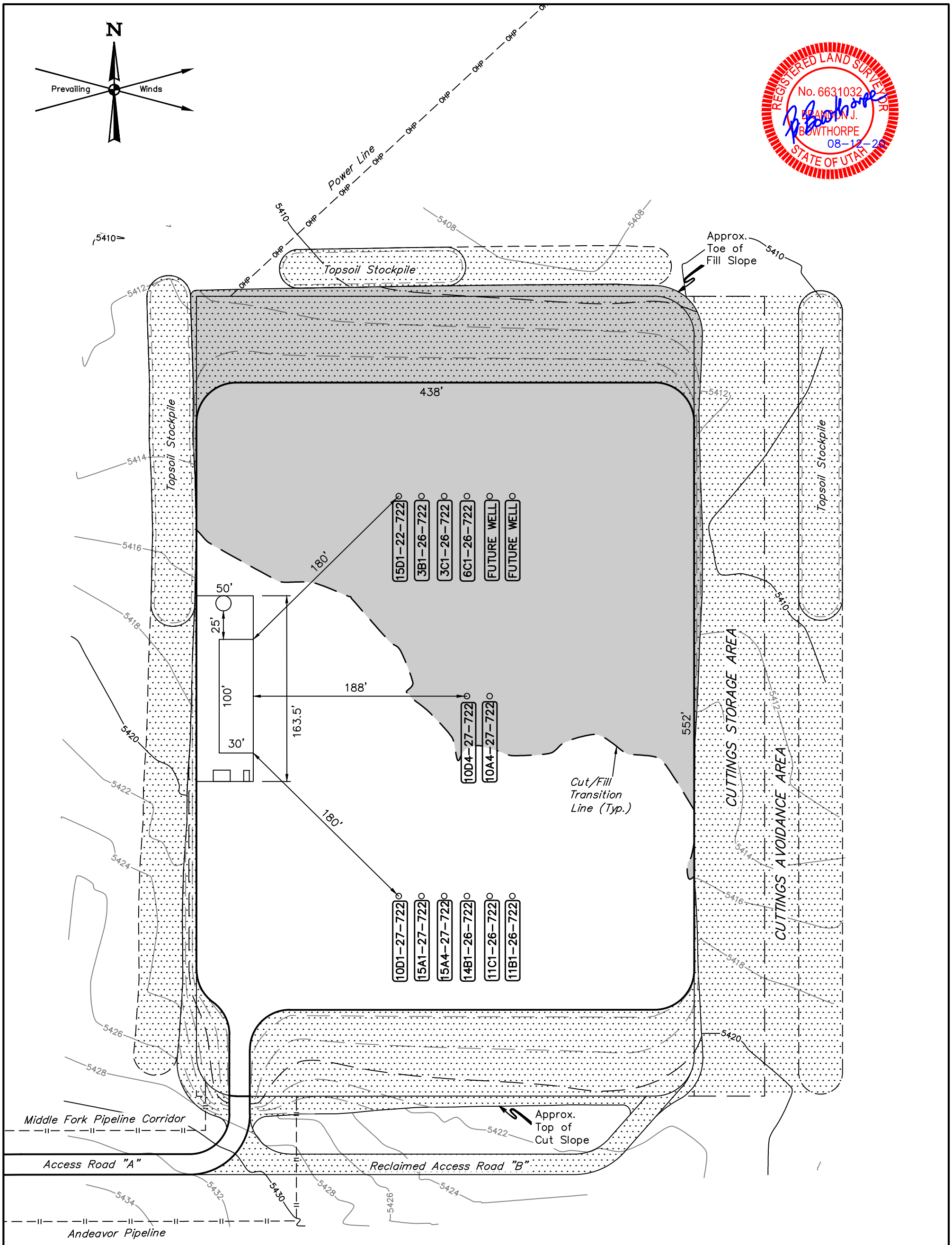
Attachments:

1. Note Pad (1 page)
    a. Student can use the first (top) section of the Note Pad to type notes to complete the exercise and reference during the exercise review.
    b. Student can use the second (bottom) section of the Note Pad to type notes during the exercise review/instructor feedback and reference in the future.
2. Interim Reclamation Layout (1 page)
3. Completion Report (2 pages)

Exercise Aid: NOTE PAD

Notes for Exercise (Filled in for Exercise)

Exercise Feedback – Optional Notes (Filled in during instructor feedback)



REGISTERED LAND SURVEYOR
No. 6631032
BRANDON J. BOWTHORPE
08-12-20
STATE OF UTAH

INTERIM RECLAMATION LAYOUT

LEGEND:

Reclaimed Area

APPROXIMATE UN-RECLAIMED ACREAGE = ±5.565 ACRES
APPROXIMATE RECLAIMED ACREAGE = ±4.805 ACRES
TOTAL ACREAGE = ±10.370 ACRES

APPROXIMATE RECLAIMED ACCESS ROAD "B" = ±0.274 ACRES

REV: 3 08-12-20 C.D. (SHL CHANGES)

NOTES:

- Contours shown at 2' intervals.

MIDDLE FORK ENERGY UINTA, LLC

MILES #42-27-722 PAD
SE 1/4 NE 1/4, SECTION 27, T7S, R22E, S.L.B.&M.
UINTAH COUNTY, UTAH

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

SURVEYED BY	B.H., C.R.	10-02-19	SCALE
DRAWN BY	T.A.	01-09-20	1" = 80'

PRODUCTION FACILITY LAYOUT **FIGURE #4**

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. UTU038749A

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No. 892000310A

2. Name of Operator UELS, LLC
Contact: JIM HORNER
E-Mail: jim.h@questar.com

8. Lease Name and Well No. Miles 10D1-27-722

3. Address 2221 WESTGATE DRIVE
ROCK SPRINGS, WY 82902

3a. Phone No. (include area code) Ph: 307.352.7523

9. API Well No. 05-081-07631-00-S1

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface SENE 1,212 FNL 990 FEL 40.940647 N Lat, 108.309392 W Lon

At top prod interval reported below NWSE 2306FSL 1636FEL

At total depth NWSE 2318FSL 1598FEL 40.941372 N Lat, 108.311889 W Lon

10. Field and Pool, or Exploratory

11. Sec., T., R., M., or Block and Survey or Area Sec 27 T7S R22E SLB&M

12. County or Parish Uintah

13. State UT

14. Date Spudded 02/25/2011

15. Date T.D. Reached 03/07/2011

16. Date Completed ☐ D & A ☒ Ready to Prod. 06/21/2011

17. Elevations (DF, KB, RT, GL)* 6741 GL

18. Total Depth: MD 9673 TVD 9602

19. Plug Back T.D.: MD 9600 TVD 9529

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CNL-FDL DIL GR CBL

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.250	9.625 J-55	36.0	0	1527		795	163	0	
7.875	4.500 P-110	13.5	0	9660		1575	540	0	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	FORT UNION	6540	9126	6540 TO 9126	0.340	166	PRODUCING
B)	LANCE	9222	9344	9222 TO 9344	0.340	36	PRODUCING
C)							
D)							

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
6540 TO 9126	396,472 GAL II VIS DELTA 140 W/ 70Q N2 FOAM & 70,000# 100 MESH 409,754# 20/40 OTTAWA SAND
9222 TO 9344	94,464 GAL II VIS DELTA 140 W/ 70Q N2 FOAM & 135,000# 20/40 OTTAWA SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
06/21/2011	06/21/2011	3	→	0.0	120.0	5.9			FLOWS FROM WELL

Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
40/64	SI	240.0	→	0	960	47		PGW

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #115955 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				WASATCH	0
				FORT UNION	5493
				LANCE	9218

32. Additional remarks (include plugging procedure):
Both zones were tested together rather than seperately.

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
6. Core Analysis
7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #115955 Verified by the BLM Well Information System.
For UELS, LLC, sent to the Vernal
Committed to AFMSS for processing by Ronald McDonald on 08/24/2011 (11RMD0673SE)

Name *(please print)* JASON TROVILLION Title CHIEF OPERATOR

Signature (Electronic Submission) Date 08/24/2011

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fradulent statements or representations as to any matter within its jurisdiction.

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****