



Jonah's Reclamation Philosophy

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Pinedale, WY | Wednesday: March 11



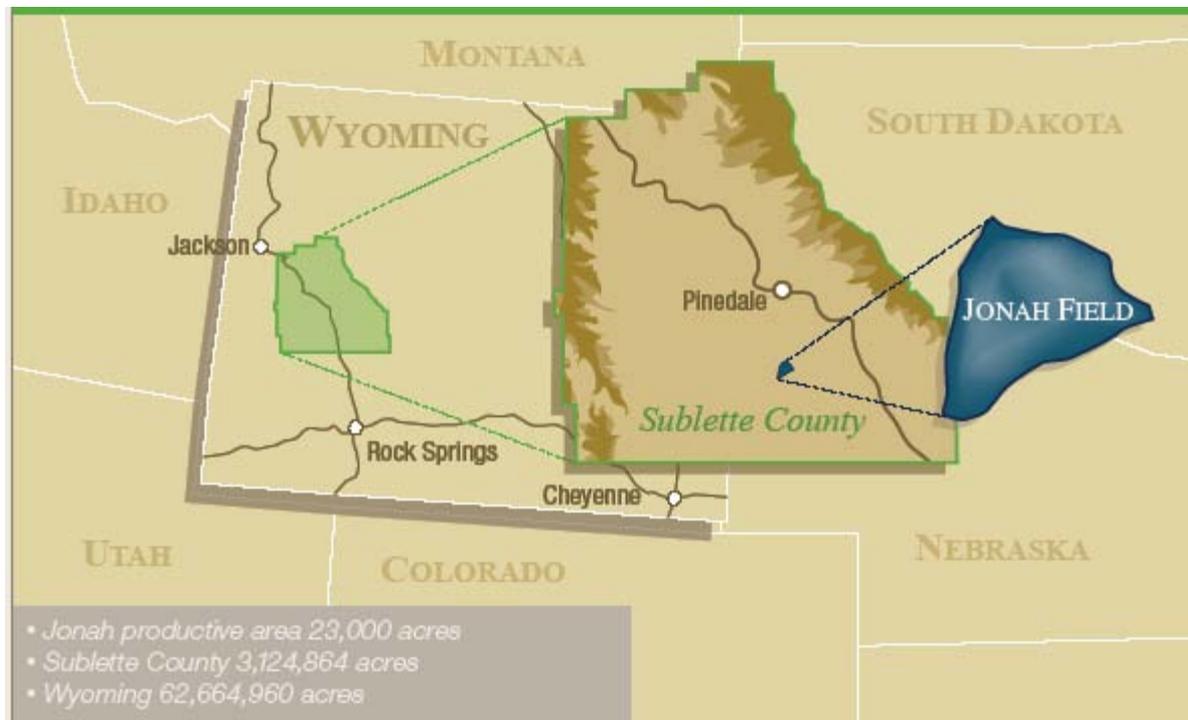


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Jonah Location





EnCana Jonah Field Reclamation Program ~ Points to Cover

- 1. Mat Location**
- 2. Earth Pad Location**



Reclamation Goals

Land under reclamation = to land being disturbed annually

Restoration of land use values = or greater than pre-disturbance

Develop and implement BMP's



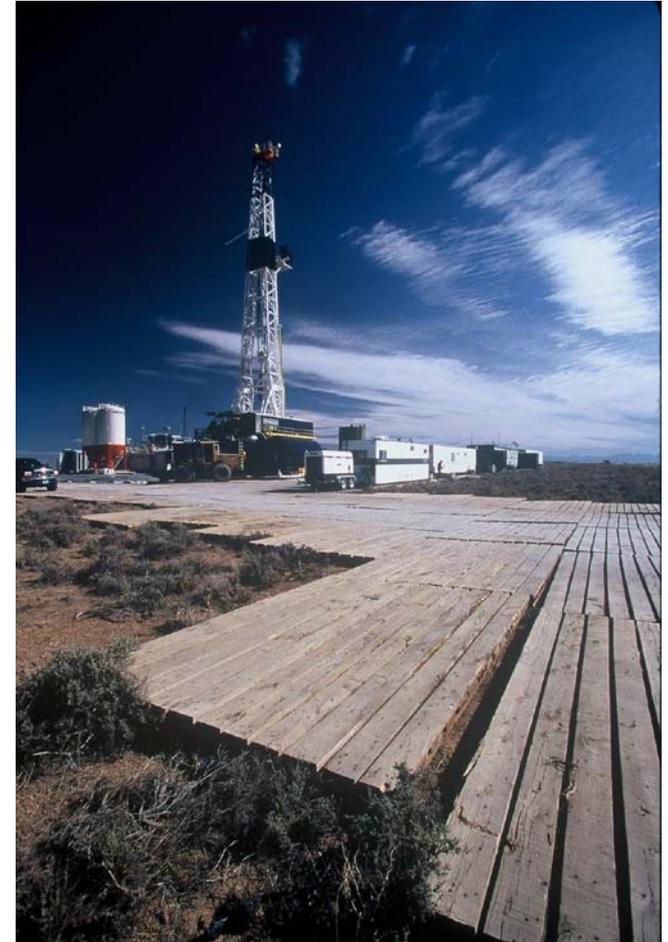
RECLAMATION PROGRAM

- **TOTAL PADS DISTURBED 2912 AC**
- **97 MATS OR 200 AC OF THE 2912**
- **LAND UNDER RECLAMATION 2000 ACRES PADS PLUS 1053 ACRES PIPELINE**



EnCana's Mat Program Objectives

- **Mat Drilling**
 - Reduced surface disturbance.
 - Hybrid locations built in areas where we cannot completely utilize mats
 - Faster reclamation and better habitat





Pilot Project: Drill 45 wells from 43 matted locations

Monitoring work:

- Photo points
- Transects
- Compaction testing
- Soils testing
- Infiltration testing
- Wildlife surveys
- Utilization
- Insect counts
- Buried Archeological Pseudo Artifacts





- Mats are 8 feet x 10 feet and are 6 inches thick
- Mats are placed directly on the ground. All environmental protection is placed on top of the mats.





- Each mat applies a pressure of 30 lbs/sq. ft. (0.21 psi)
- An average adult male applies a pressure of 375 lbs/sq. ft. (2.6 psi)





Soil Compaction Results cut/fill pads Mean Dry Soil Bulk Density, g/cm³

Depth	Native	Drill Pad	Change
0-2	1.3	1.4	+8.4%
2-6	1.29	1.45	+12.3%
6-18	1.33	1.5	+12.9%
Mean	1.31	1.45	+11.2



Soil Compaction with Oak Mats

Depth	Before	After	Change
0-2	1.29	1.26	-2.3%
0-6	1.32	1.35	+2.3%
0-12	1.32	1.41	+6.8
Mean	1.31	1.34	+2.3%
Mean 17 sites	Density threshold 1.65 g/cm ³		



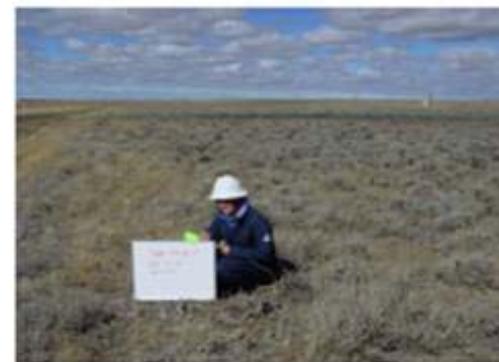
Soils summary:

- Does not impact soil structure
- Does not change the distribution of salts in the soil profile
- Cause little or no loss in the viability of the seed bank
- Soil bulk density after mat removal was either slightly lower or higher when compared to the pre-mat construction condition, but the increase never exceeded 0.08 g/cm^3 .
- Bare ground and rock in oak mat locations were not significantly different compared to native rangeland.



Vegetation Photo Points

SHB 53-20 Pre Mat



SHB 53-20 Post Mat





Vegetation compared to native on average:

- Grass production same or higher
- Grass diversity, density and cover same or higher
- Forbs diversity, density, and cover same or higher
- Shrub cover, density and diversity less than native
- Bare ground higher on mats than in native



Cultural: Only one artifact was damaged, and it cannot be determined if it was due to human error at burial or due to the use of the oak mats

Wildlife use:

- More use by all species compared to conventional reclamation
- Higher wildlife utilization of vegetation than native sites
- Higher insect diversity and density. Single species varied in amounts on native vs. mat site.



Can you spot the 16 mat locations?

The mat locations on average are 1.5-2.0 acres in size compared to a conventional location of 3.0-4.0 acres.





Roll Over Acreage Approved

- **2007 = 2 pad 4 ac**
- **2008 = 2 pad 4 ac**
- **2009 = 17 pads requested**





Negatives

Requires reserve pit in close proximity

Needs level ground less than 2%

Need to complete well quickly and remove pads



Thanks to:

- **KC Harvey, LLC**
- **Aster Canyon Consulting, LLC**
- **Current Archeological Research, Inc.**
- **Wyoming Wildlife Consultants, LLC**



Reclamation of Conventional Pad

- **Keys**
 - Analyze and Handle Cover Soil
 - Quick Turn Around
 - Improve plant materials for Native Forbs and Shrubs



Pre Construction Soil Analysis

- Separate cover soil from sub soil based on Chemistry
- Topsoil depths vary from 0" to 12" and is directly related to soil chemistry.





SOIL SALVAGE PLANNING

Final Soil Salvage Plan EnCana Oil & Gas (USA) Inc.

SHB 47-17

Soil Depth Recommended For Salvage In Sections A, B, C and D. Depth Increment Evaluated = 0-18 inches
Soil Family: Coarse-loamy, mixed, superactive, frigid Ustic haplocalcid

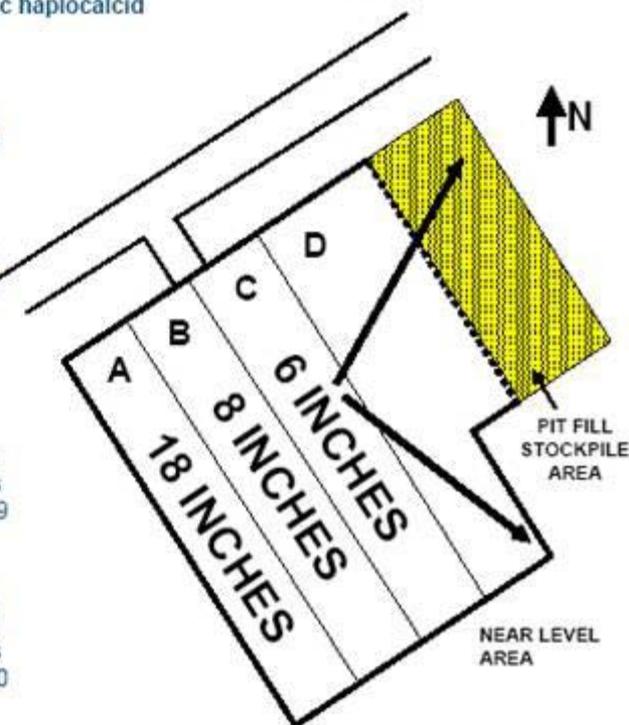
Estimated Excess Suitable Soil = 1034 yd³

Section A. Salinity (0.72-1.19 dS/m) and sodicity (SAR 0.42-0.69) were low. Soil pH was suitable (7.1-7.2). Soil textural classes and saturation % (25.7-34.5 %) were acceptable. The CaCO₃ content was suitable (1.3-4.6 %).

Section B. Salinity (0.44-0.93 dS/m) and sodicity (SAR 0.35-2.20) were low. Soil pH was suitable (6.7-7.6). Soil textural classes and saturation % (27.1-33.6 %) were acceptable. The CaCO₃ content was suitable (1.2 %) in the 0-6 inch increment, but was elevated (7.0%) in the 6-18inch increment.

Section C. Salinity (0.74-0.98 dS/m) and sodicity (SAR 0.32-2.6) were low. Soil pH was suitable (7.2-7.8). Soil textural classes and saturation % (30.3-35.5 %) were suitable. The CaCO₃ content was suitable (3.1 %) in the 0-6 inch increment, but was elevated (8.9-9.9 %) in the 6-18 inch increment.

Section D. Salinity (0.66-0.77 dS/m) and sodicity (SAR 0.34-0.87) were low. Soil pH was suitable (7.1-7.7). Soil textural classes and saturation % (32.5-37.5 %) were suitable. The CaCO₃ content was suitable (2.4 %) in the 0-6 inch increment, but was elevated (8.6-9.0 %) in the 6-18 inch increment.







Special Projects

■ Irrigation

- Irrigation has been used on 118 sites or about 30-35 location per year
- Results show irrigation beneficial for grass establishment and some forbs and shrubs.





LOCATION RANKING CRITERIA

- **3 RANKING**
 - GRASS VISIBLE ON 50% OF LOCATION HAS SOME VISIBLE GRASS ROWS
 - SHUBS AND FORBS SAME BUT WITH ONE OR MORE SPECIES PRESENT



SUMMARY OF IRRIGATION RESULTS

- **2005---** 31 LOCATION IRRIGATED 61% of the sites ranked 3 or better for grass were irrigated. No effect on Forbs and Shrubs not planted under the irrigation
- **2006---** 43 sites irrigate and 81% of the sites that ranked 3 or higher were irrigated
- **2007---** 44 sites irrigated and 41% of the sites that ranked 3 or better were irrigated
- **2007 ---** very beneficial to shrubs with most sites ranking two or higher for forbs and shrubs



VEG MONITORING RESULTS 2005-2007

- **362 LOCATIONS SEEDED THROUGH 2007
AND MONITORED QUALITATIVELY**
- **55% RANKED 3 OR HIGHER FOR GRASS**
- **ONLY 10% RANKED 3 OR BETTER FOR
FORBS AND SHUBS**



Snow Fence

- Snow Fence to Capture Winter Moisture
- Research to see if snow fence improves vegetation





ERICA DAVID SNOW FENCE RESEARCH

- **6 LOCATION IN RESEARC STUDY**
- **2 LOCATION WITH PARTIAL FENCING**
- **STUDY SHOWS THAT AREA OUTSIDE SNOW FENCH HAD 10% WATER BY VOLUME**
- **STUDY SHOWS THAT AREA BEHIND SNOW FENCES HAVE 40-50% WATER BY VOLUME**
- **STUDY ALSO SHOWS THAT WATER IS RETAINED 60 DAYS PAS THE CONTROL AREA**



Long Term Strategy

- **Involve local land users and the public**
- **Enhance planning**
- **Support sound science & science-based decision making**
- **Consider economics vs. results**





ASTER CANYON CONSULTING, LLC
SHB 5-28 09/28/05



Summary

- **Reclamation on track to have around 60-75% of disturbance under restoration by the end of Field Drilling**
- **Reclamation of native grasses is being accomplished on 70% of the reclamation locations.**
- **Forbs and Shrubs are slower to establish and still search for right prescription.**



Questions?

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