

TMCBSU - Workover Candidates (North)

Arkanova Energy Corporation

Operator: Provident Energy Associates of Montana, LLC

Client Update

DCS NGC Team

June 4, 2010

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Agenda

- Update on well (file) data gathering and well review (completion and well history captured)
- Results on re-completion opportunities, NE (Active and TA/SI wells)
- Update on Fracture Analysis, our plans forward
- Progress report (tasks completed and pending tasks)
- Update Summary of Project Tracking Time

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Two Medicine Cut Bank Sand Unit (TMCBSU)



Objective

- Identify workover opportunities to increase oil production in the Two Medicine Cut Bank Sand Unit (TMCBSU) for wells located in the North of the field.
 - Identify re-perforation opportunities
 - Analysis of historical fracturing techniques
 - Structure information for future studies

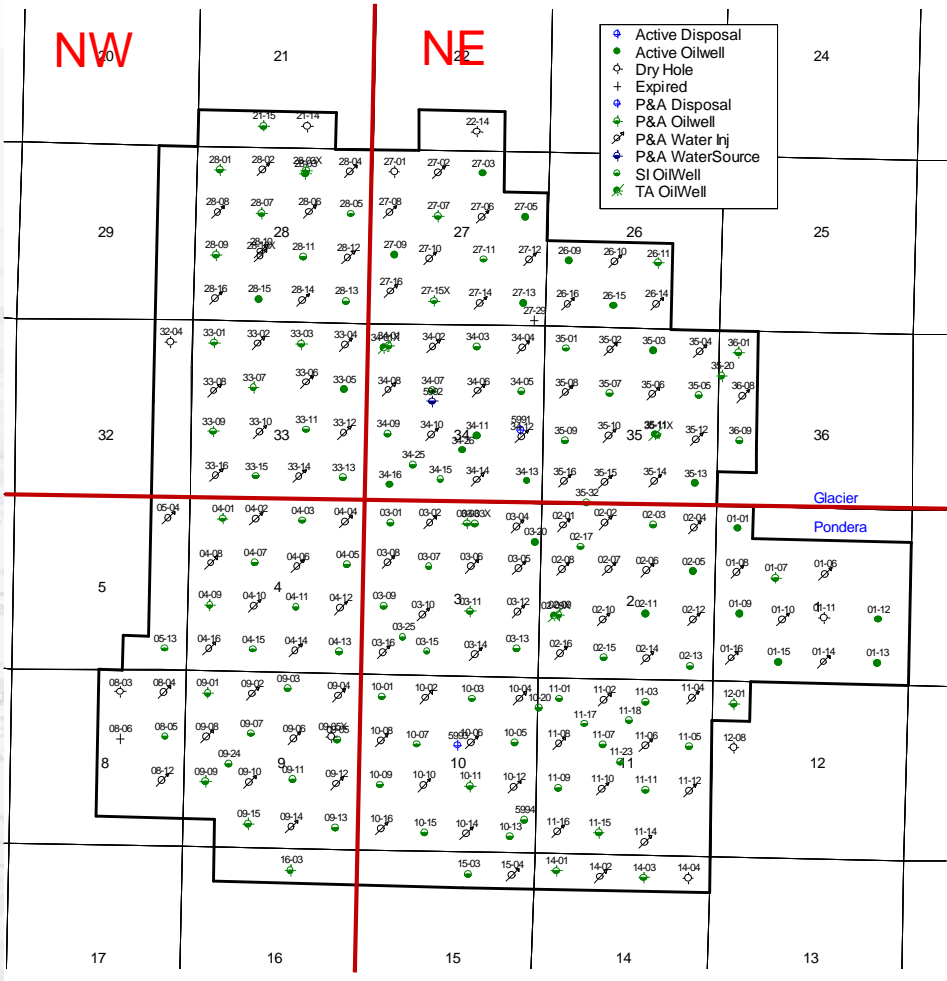
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Two Medicine Cut Bank Sand Unit (TMCBSU)



TMCBSU - Workover Candidates (North)



Completed well file review

- Active wells in NE (12)
- SI & TA wells in NE (16)
- P&A Producers in NE (6)

Pending well file review

- P&A Injectors in NE (only 4)
- Remaining active wells in TMCBSU (10)
- SI wells in NW (6)
- P&A Producers in NW (10)

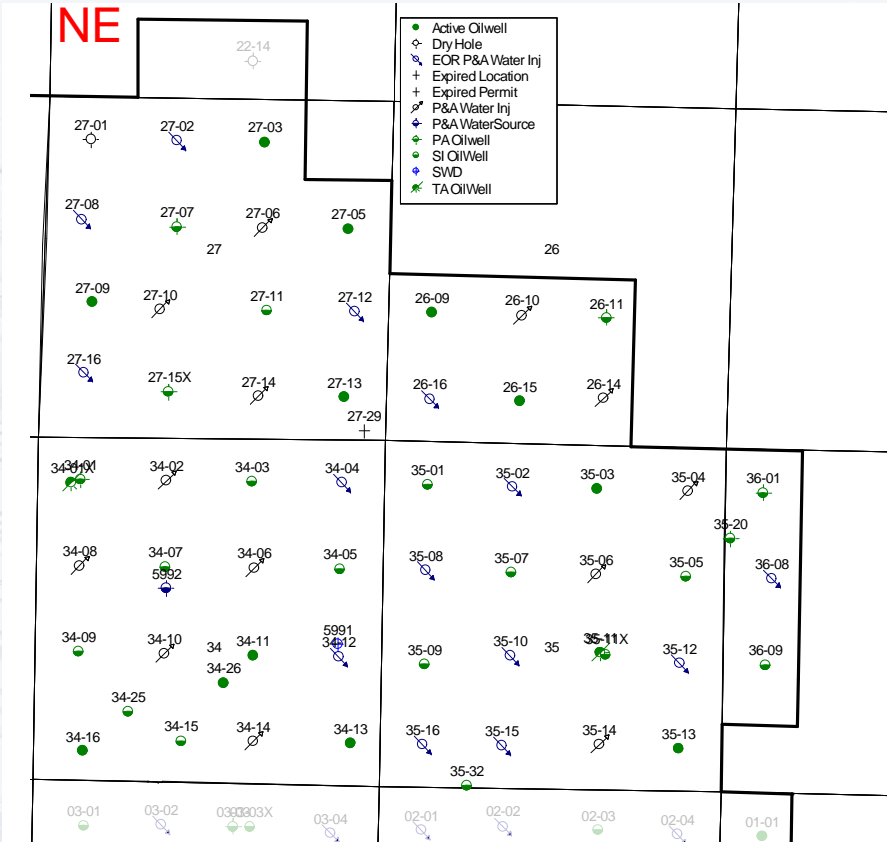
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Two Medicine Cut Bank Sand Unit (TMCBSU)



TMCBSU - Northeast (sec 26, 27, 34, 35, 36)



12 active producers

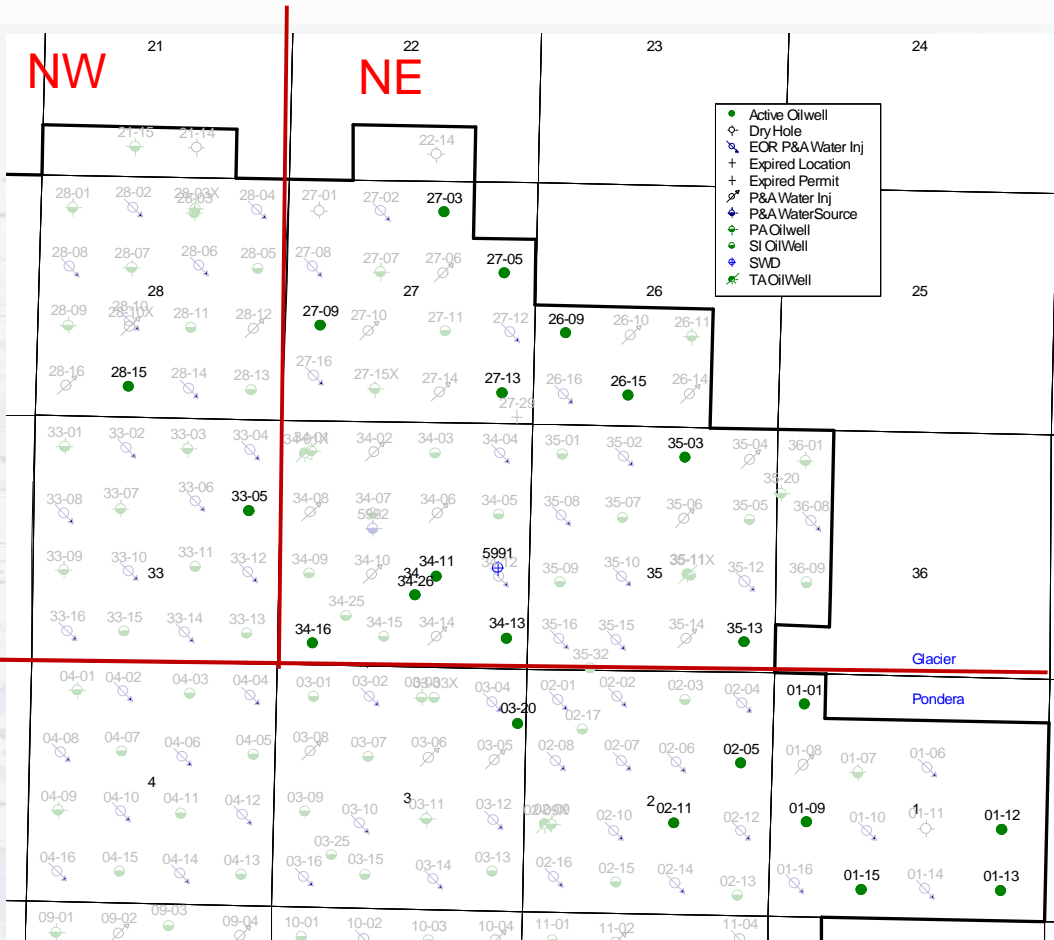
16 SI & TA producers

Active		P&A	
26-09	Active_PRD	26-10	P&A_INJ
26-15	Active_PRD	26-11	P&A_PRD
27-03	Active_PRD	26-14	P&A_INJ
27-05	Active_PRD	26-16	P&A_INJ
27-09	Active_PRD	27-01	P&A_DRY
27-13	Active_PRD	27-02	P&A_INJ
34-11	Active_PRD	27-06	P&A_INJ
34-13	Active_PRD	27-07	P&A_PRD
34-16	Active_PRD	27-08	P&A_INJ
34-26	Active_PRD	27-10	P&A_INJ
35-03	Active_PRD	27-12	P&A_INJ
35-13	Active_PRD	27-14	P&A_INJ
5991	Active_DISP	27-15X	P&A_PRD
		27-16	P&A_INJ
		27-29	EXPIRED
		34-01	P&A_PRD
		34-02	P&A_INJ
		34-04	P&A_INJ
		34-06	P&A_INJ
		34-08	P&A_INJ
		34-10	P&A_INJ
		34-12	P&A_INJ
		34-14	P&A_INJ
		35-02	P&A_INJ
		35-04	P&A_INJ
		35-06	P&A_INJ
		35-08	P&A_INJ
		35-10	P&A_INJ
		35-12	P&A_INJ
		35-14	P&A_INJ
		35-15	P&A_INJ
		35-16	P&A_INJ
		35-20	P&A_PRD
		36-01	P&A_PRD
		36-08	P&A_INJ
		5992	P&A_WS

6 P&A Producers

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TMCBSU - All active producers (22)



01-01	Active_PRD
01-09	Active_PRD
01-12	Active_PRD
01-13	Active_PRD
01-15	Active_PRD
02-05	Active_PRD
02-11	Active_PRD
03-20	Active_PRD
26-09	Active_PRD
26-15	Active_PRD
27-03	Active_PRD
27-05	Active_PRD
27-09	Active_PRD
27-13	Active_PRD
28-15	Active_PRD
33-05	Active_PRD
34-11	Active_PRD
34-13	Active_PRD
34-16	Active_PRD
35-03	Active_PRD
35-13	Active_PRD
5991	Active_DISP

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Active wells outside NE (10)

Northeast (12)

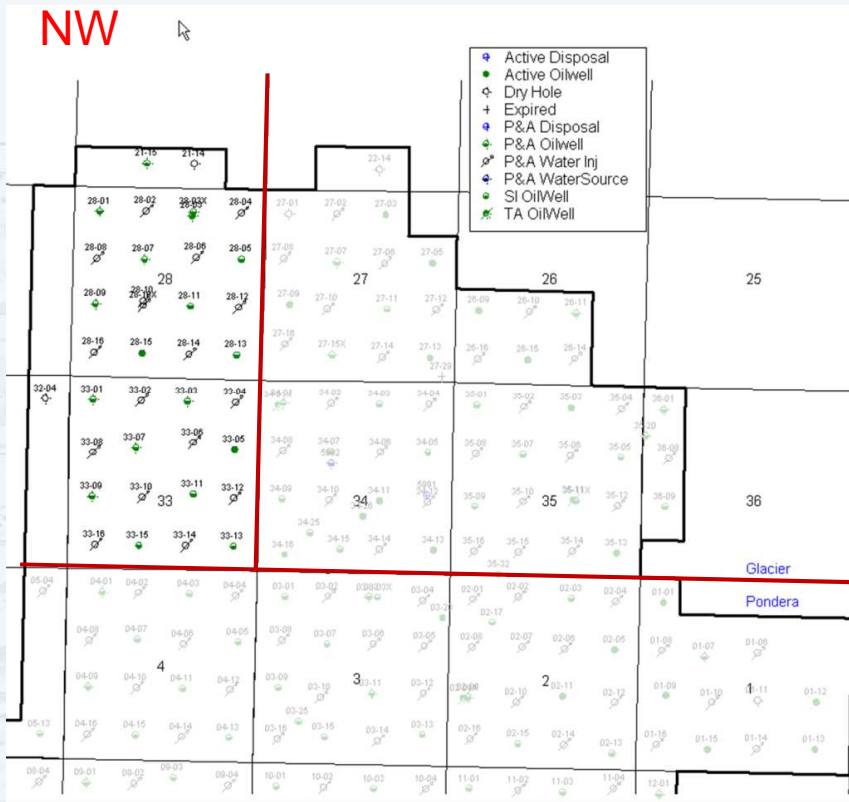
Disposal Well



Two Medicine Cut Bank Sand Unit (TMCBSU)



TMCBSU - Northwest (sec 21, 28, 33)



2 active producers

6 SI producers

10 P&A Producers

28-15	Active_PRD	21-15	P&A_PRD
33-05	Active_PRD	28-01	P&A_PRD
		28-03	P&A_PRD
		28-03X	P&A_PRD
		28-07	P&A_PRD
28-05	SI_PRD	28-09	P&A_PRD
28-11	SI_PRD	33-01	P&A_PRD
33-11	SI_PRD	33-03	P&A_PRD
33-13	SI_PRD	33-07	P&A_PRD
33-15	SI_PRD	33-09	P&A_PRD
28-13	SI_PRD	28-02	P&A_INJ
		28-04	P&A_INJ
		28-06	P&A_INJ
		28-08	P&A_INJ
		28-10	P&A_INJ
		28-10X	P&A_INJ
		28-12	P&A_INJ
		28-14	P&A_INJ
		28-16	P&A_INJ
		33-02	P&A_INJ
		33-04	P&A_INJ
		33-06	P&A_INJ
		33-08	P&A_INJ
		33-10	P&A_INJ
		33-12	P&A_INJ
		33-14	P&A_INJ
		33-16	P&A_INJ
		21-14	DRY
		32-04	DRY

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Two Medicine Cut Bank Sand Unit (TMCBSU)



Status & Next Steps

Tasks Done

Identified potential by passed opportunities (re-perforation) 12 Active - NE wells
Review well files for NE Section (12 wells). Completion and well history capture for each well from BLM report
Begin constructing the main Fracturing Database for detail analysis*
Review well files for remaining Wells (SI & TA) in NE section (16 wells)
Review well Files for NE section - P&A wells (6 wells)
Wrap up re-perforation opportunities among Active wells in the NE section (12 wells)
Review re-perforation opportunities in SI(shut-in) and TA (Temporary abandoned wells) - NE (16 wells)
Consolidate/Back up re-perforation candidates (Active, SI, TA) -NE
Wrap up well files - TA&SI wells with Prod Plots and additional information - NE (16 wells)

Pending Tasks

Review of P&A injectors surrounding the re-completion opportunities NE (get an idea of completion technique) (4 wells)
For NE re-perforation candidates, estimate cement tops (avoid producing water behind casing)
Write final well procedure for re-completion opportunities NE
Consolidate fracturing information NE
Capture well logs with their corresponding perforations for non-selected candidates (NE), for qualitative Fracture Analysis
Review 10 additional active wells (all TMCBSU unit)
Review additional wells in the NW (2 active wells, 6 SI&TA and 10 P&A wells)
Review Re-completion opportunities for remaining 10 active well (all TMCBSU unit)
Review Re-completion opportunities for NW
Continue consolidating fracturing information NE+NW
Begin Fracturing Analysis NE +NW

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