FILED

JAN 20 2011

SECRETARY, BOARD OF OIL, GAS & MINING

BEFORE THE BOARD OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH

IN THE MATTER OF THE REQUEST FOR AGENCY ACTION OF SUMMIT OPERATING, LLC FOR AN ORDER ESTABLISHING A 320-ACRE DRILLING AND SPACING UNIT FOR A HORIZONTAL WELL IN AND THE PRODUCTION OF OIL, GAS, AND OTHER HYDROCARBONS FROM THE GREEN RIVER FORMATION IN THE WEST HALF OF SECTION 16, TOWNSHIP 7 SOUTH, RANGE 21 EAST, SALT LAKE MERIDIAN, UINTAH COUNTY, UTAH	**LIST OF EXHIBITS** Docket No. 2011-003 Cause No.270-01

Petitioner Exhibit 1: Sundry Notice, Change of Operator to Summit Operating, LLC for the West half of Section 16, Township 7 South, Range 21 East, SLM, Uintah County, Utah.

Petitioner Exhibit 2: Unit outline and lease map

Petitioner Exhibit 3: Projected horizontal well path

Petitioner Exhibit 4: Drainage radius schematic

Petitioner Exhibit 5: Calculated drainage table

Petitioner Exhibit 6: G1 geologic map

Petitioner Exhibit 7: H4a geologic map

Petitioner Exhibit 8: Geologic cross section

Petitioner Exhibit 9: Stratigraphic column

Jeremy C. Schwendiman
Attorney for Petitioner

Petitioner Exhibit 1
Docket No. 2011-003
Cause: 270-01

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: UT ST ML 40904
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME:
8. WELL NAME and NUMBER: State 14-16
9. API NUMBER: 4304731417
10. FIELD AND POOL, OR WILDCAT: Brennan Bottom

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER
2. NAME OF OPERATOR: Westport Oil and Gas Company, L.P. N2115
3. ADDRESS OF OPERATOR: 1670 Broadway, Suite 2800 CITY Denver STATE CO ZIP 80202 PHONE NUMBER: (303) 573-5404
4. LOCATION OF WELL
FOOTAGES AT SURFACE:
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 16 7S 21E
COUNTY: Uintah
STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 8/1/2005	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☑ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Westport has sold its interest in the above well and proposes to transfer operatorship to Summit Operating, LLC, located at PO Box 683909, Park City, UT 84068-3909, effective 8-1-05. Summit agrees to assume operatorship under blanket bond ~~#N2315.~~

Agreed to this 28th day of July, 2005, but effective for all purposes 8-1-05.

Greg Schmidt
Agent for Summit Operating, LLC N 2315

NAME (PLEASE PRINT) DAVID R. DIX TITLE ATTORNEY-IN-FACT
SIGNATURE DATE 7/28/05

(This space for State use only)

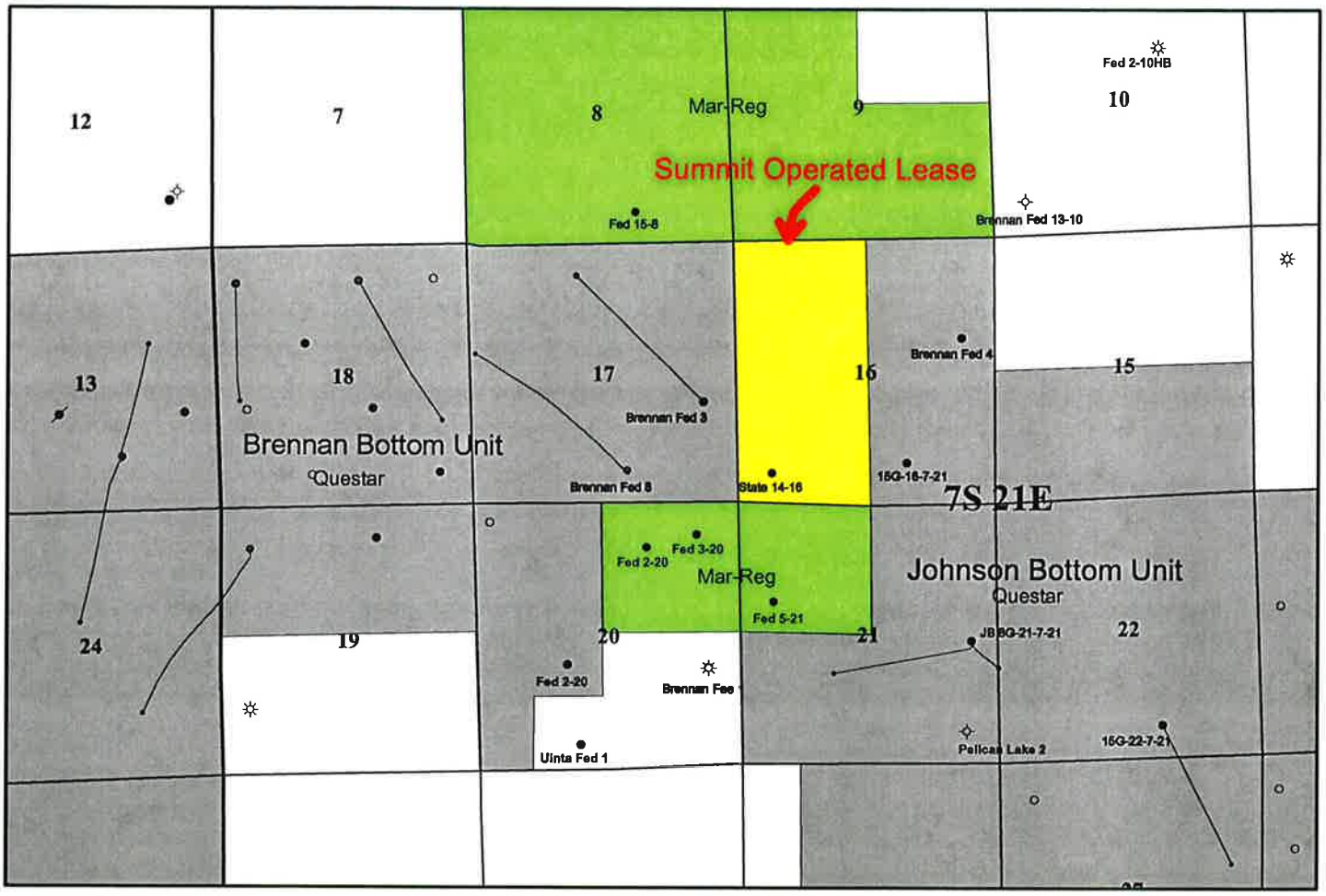
APPROVED 8/15/05
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

(5/2000)

RECEIVED
AUG 01 2005
DIV. OF OIL, GAS & MINING

Petitoner Exhibit 2
Docket # 2011-003
Cause: 270-01



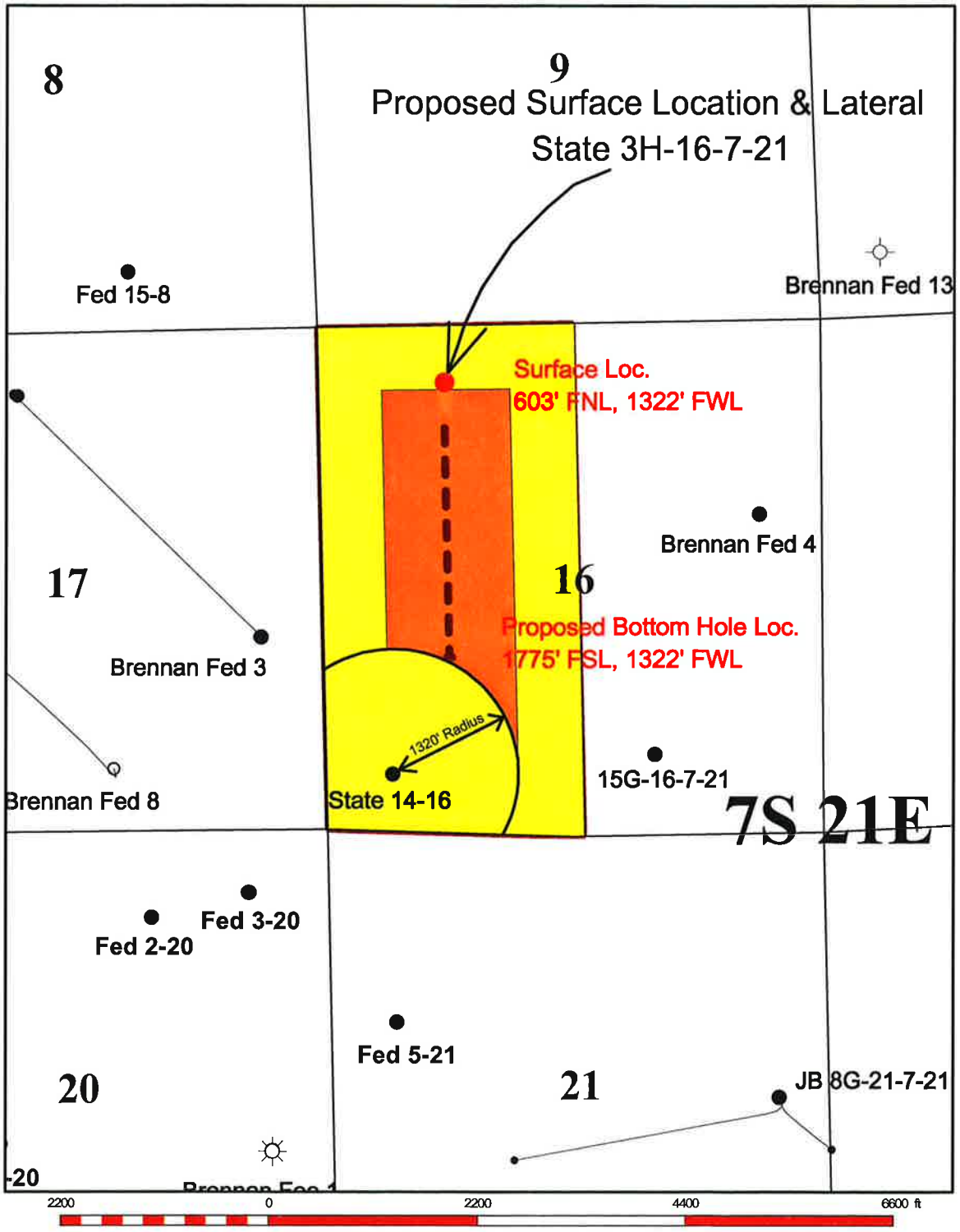
2200 0 2200 4400 6600 ft

Scale: 1" = 3600'

Summit Operating LLC

Brennan Bottom
Uintah Co. Utah
Unit Outline and Lease Map

Author: Carl F. Kendell		**Date:** 20 January, 2011
	Scale: 1" = 3600'	



Scale: 1" = 1667'

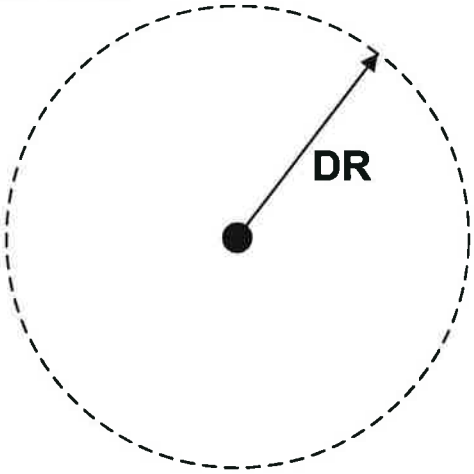
Summit Operating LLC		
Brennan Bottom Uintah Co. Utah Projected Horizontal Well Path		
Author: Carl F. Kendell		Date: 20 January, 2011
	Scale: 1" = 1667'	

Petitioner Exhibit 3
Docket # 2011-003
Cause: 270-01

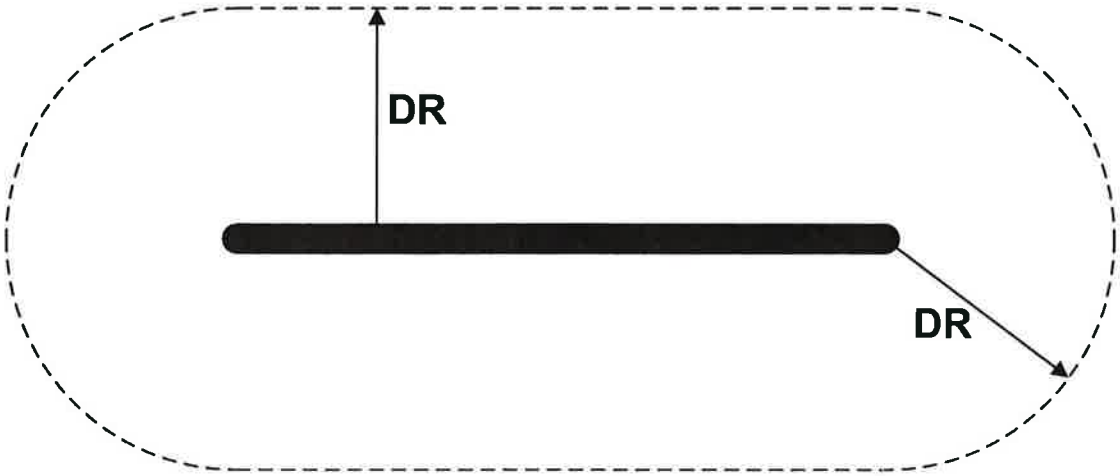
Petitioner Exhibit 4
Docket No. 2011-003
Cause: 270-01

Summit Operating, LLC
State 3H-16-7-21 Spacing Hearing

Vertical Well



Horizontal Well



Assume drainage radius (DR) for horizontal well equals drainage radius for vertical well.

Petitioner Exhibit 5
Docket No. 2011-003
Cause: 270-01

Summit Operating, LLC
State 3H-16-7-21 Spacing Hearing

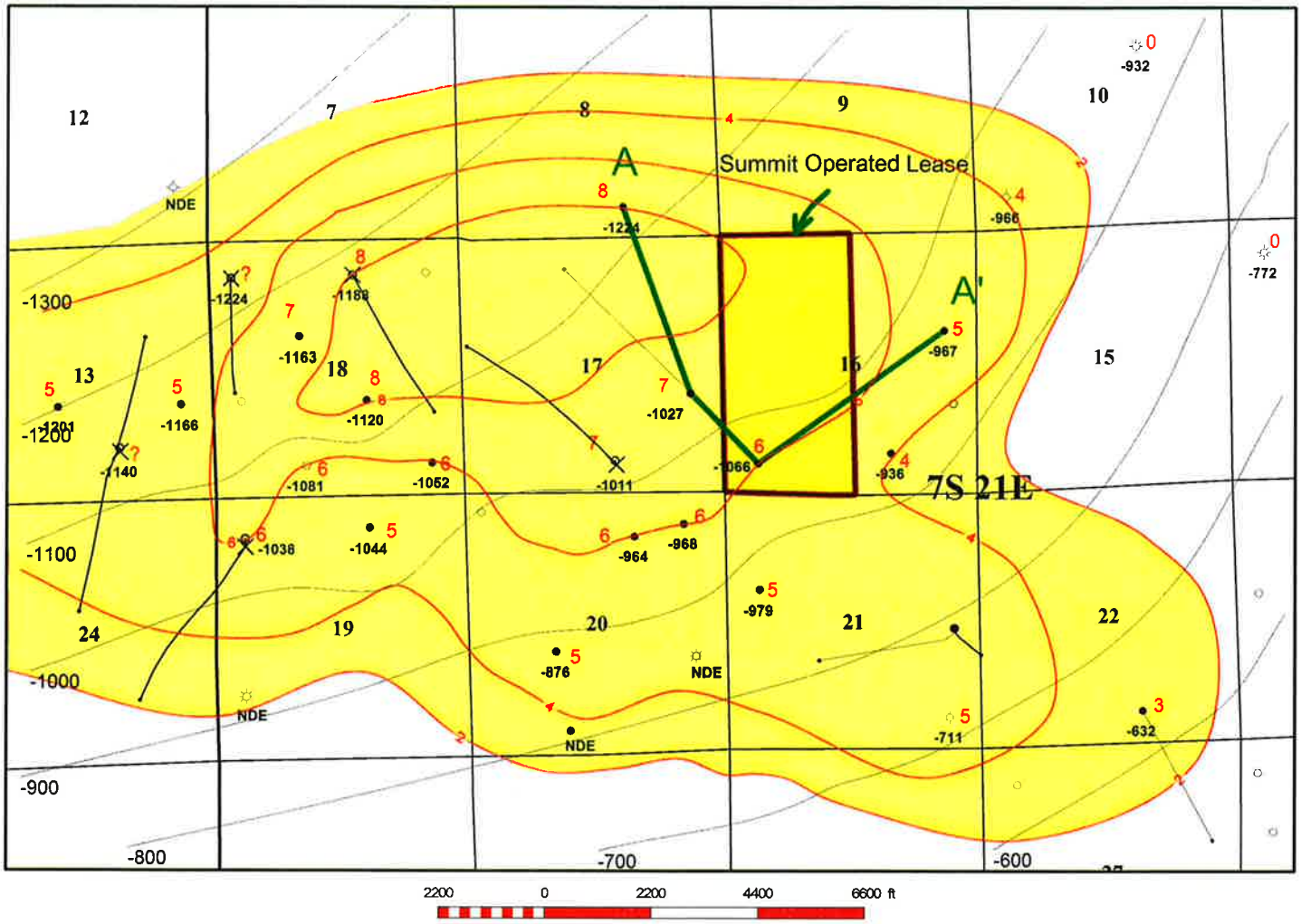
Offset Wells to the Proposed State 3H-16-7-21

Calculated Radius for Circular Drainage Area

Well	Completed HPV (feet)	EUR (MBO)	DR w/ 10% RF (feet)	DR w/ 20% RF (feet)
State 14-16	3.81	99.9	799	565
Federal 15-8	1.87	44.6	763	539
Brennan Federal 3	1.45	63.9	1037	733
Gulf-Brennan Federal 8	3.15	244.4	1047	741
Federal 2-20	3.15	203.3	1255	887
Federal 3-20	1.00	2.2	231	164
Federal 5-21	1.18	69.1	1195	845

HPV = Hydrocarbon Pore Volume = thickness x porosity x hydrocarbon (oil) saturation
EUR = Expected Ultimate Recovery (from original vertical well)
DR = Drainage Radius (assuming circular drainage area)
RF = Recovery Factor = Percent of original oil in place that is recovered over life of well

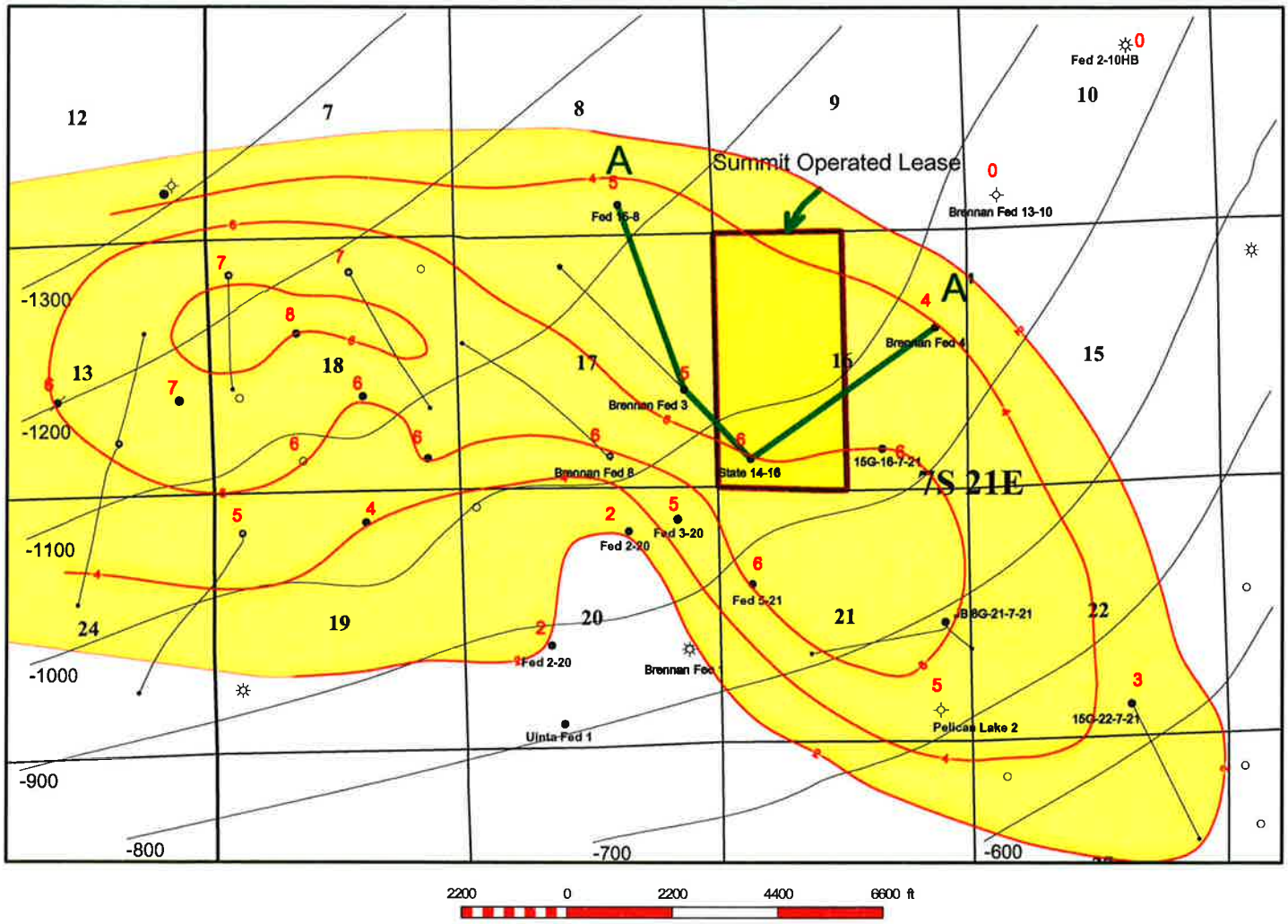
Petitioner Exhibit 6
Docket # 2001-003
Cause: 270-01



Scale 1" = 3600'

Summit Operating LLC		
Brennan Bottom **Uintah Co. Utah** **Tgr 3 Structure: C.I. = 100'** **G1 Limestone Isopach: C.I. = 2'**		
Author: Carl F. Kendell		**Date:** 20 January, 2011
	Scale: 1" = 3600'	

Petitioner Exhibit 7
Docket # 2011-003
Cause: 270-01



Scale: 1" = 3600'

Summit Operating LLC

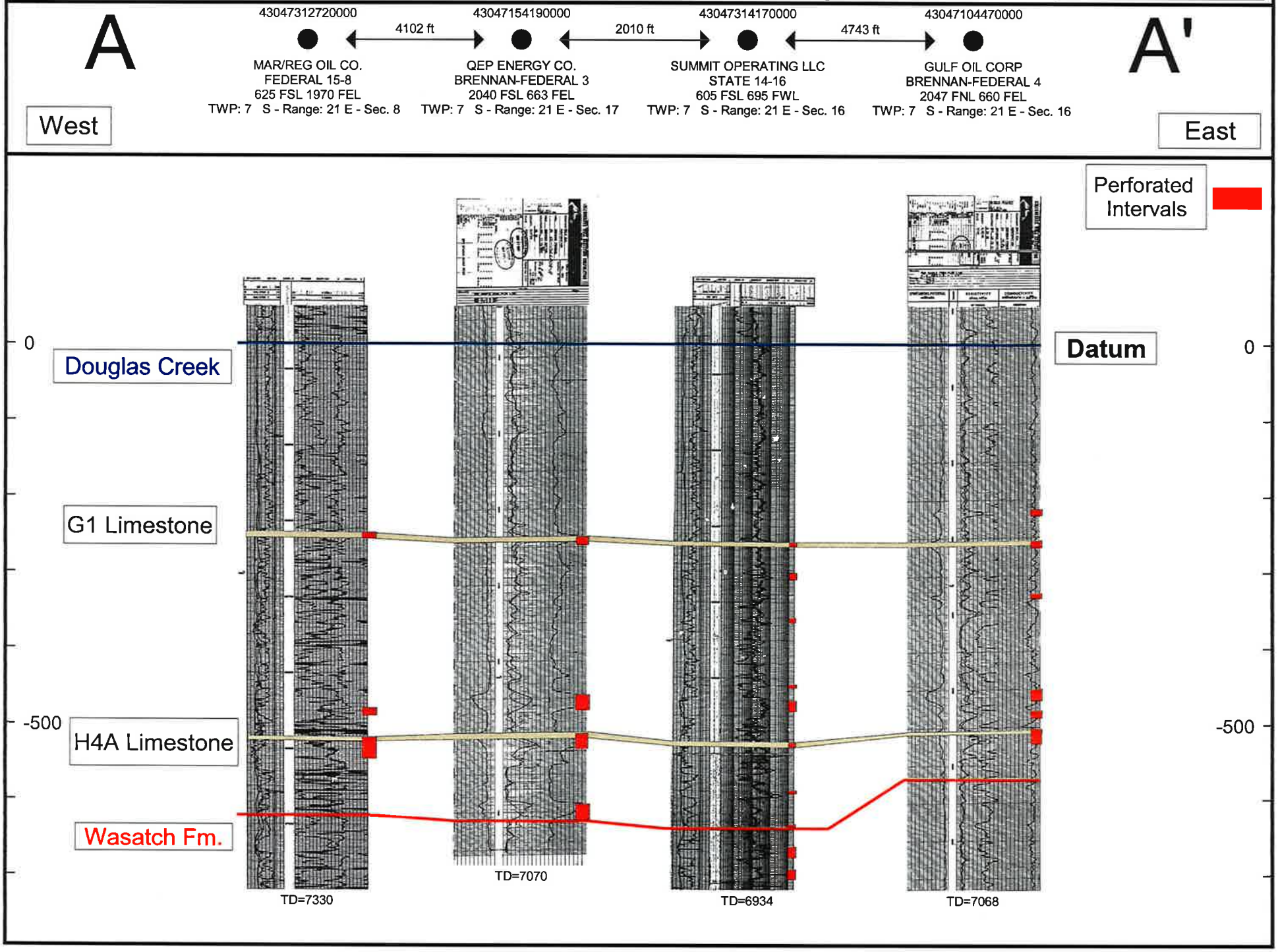
Brennan Bottom

Uintah Co. Utah
Tgr 3 Structure: C.I. = 100'
H4A Limestone Isopach: C.I. = 2'

Author: Carl F. Kendell		**Date:** 20 January, 2011
	Scale: 1" = 3600'	

Stratigraphic Cross Section "Brennan Bottom East-West A"
Vertical Scale = 0.6" per 100 ft
Horizontal Scale = Equally Spaced Logs

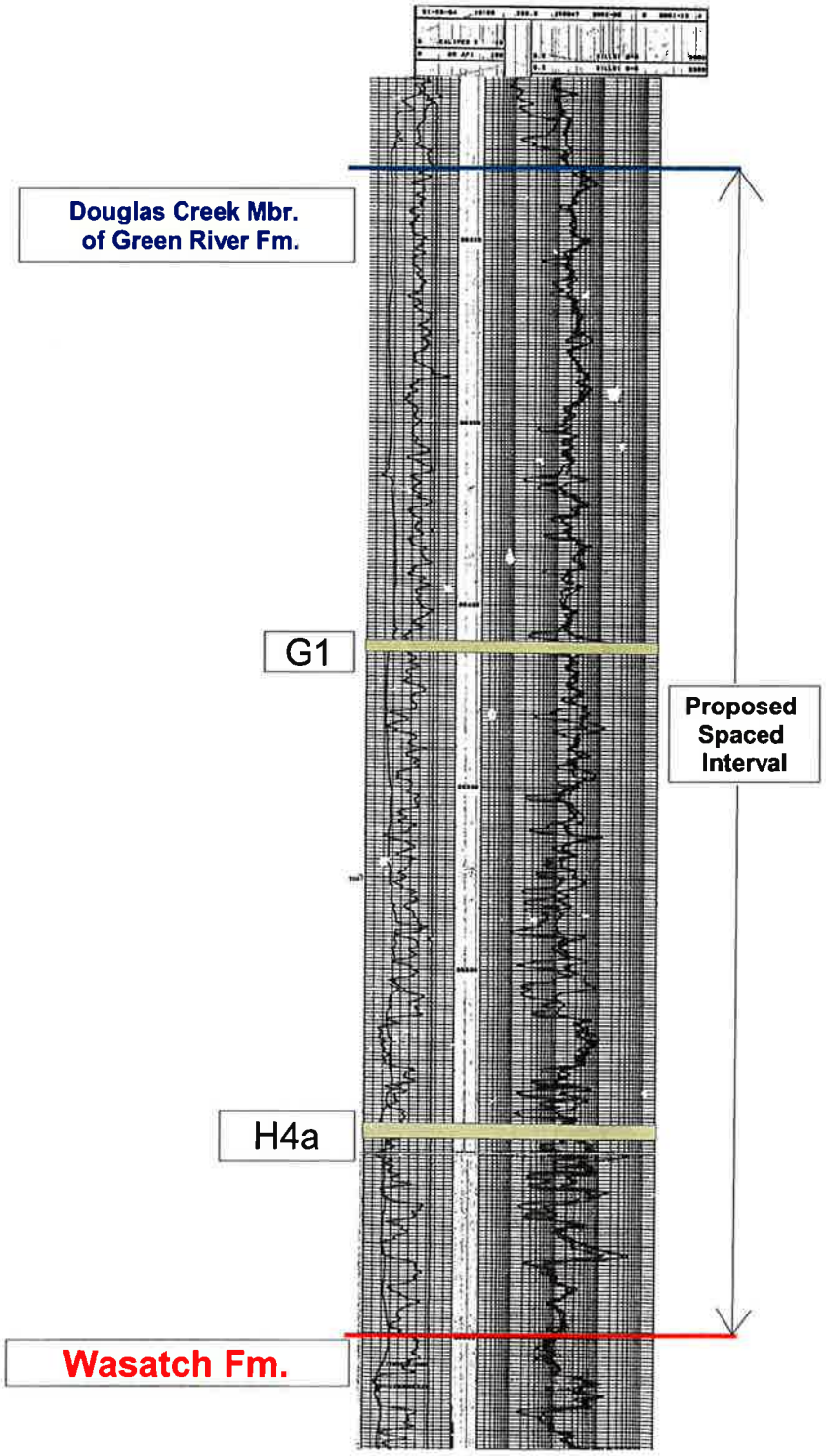
Petitioner Exhibit 8
Docket # 2011-003
Cause: 270-01



Stratgraphic Column Brennan Bottom
Vertical Scale = 1inch per 100 ft

Petitioner Exhibit 9
Docket #2011-003
Cause: 270-01

SUMMIT OPERATING LLC
STATE 14-16
605 FSL 695 FWL
TWP: 7 S - Range: 21 E - Sec. 16



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