

FORM  
**15**  
 Rev 6/99

State of Colorado  
**Oil and Gas Conservation Commission**



1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109

FOR OGCC USE ONLY  
**RECEIVED**  
 SEP - 7 04  
 COGCC

**EARTHEN PIT REPORT/PERMIT**

This form is to be used for both reporting and permitting pits. Rule 903 describes when a Permit with prior approval, or a Report within 30 days, is required for pits. Submit required attachments and forms.

Complete the  
 Attachment Checklist

**FORM SUBMITTED FOR:**

Pit Report       Pit Permit

	Oper	OGCC
Detailed Site Plan		
Topo Map w/ Pit Location		
Water Analysis (Form 25)		
Source Wells (Form 26)		
Pit Design/Plan & Cross Sec		
Design Calculations		
Sensitive Area Determ.		
Mud Program		
Form 2A		

OGCC Operator Number: 96850  
 Name of Operator: WILLIAMS PRODUCTION RMT CO.  
 Address: 1515 Arapahoe St., Tower 3, # 1000  
 City: DENVER State: CO Zip: 80202

Contact Name and Telephone:  
GREG DAVIS  
 No: 303-606-4071  
 Fax: 303-629-8285

API Number (of associated well): TR 22-34 05-045-10052 OGCC Facility ID (of other associated facility): \_\_\_\_\_  
 Pit Location (QtrQtr, Sec, Twp, Rng, Meridian): NWSW SECTION 34-T5S-R97W  
 Latitude: 39° 34' 16.23" Longitude: 108° 15' 59.41" County: GARFIELD  
 Pit Use:  Production     Drilling (Attach mud program)     Special Purpose (Describe Use): TR 22-34  
 Pit Type:  Lines     Unlined    Surface Discharge Permit:  Yes     No  
 Offsite disposal of pit contents:  Injection     Commercial    Pit/Facility Name: \_\_\_\_\_ Pit/Facility No: \_\_\_\_\_  
**Attach Form 26 to identify Source Wells and Form 25 to provide Produced Water Analysis results.**

**Existing Site Conditions**

Is the location in a "Sensitive Area?"     Yes     No    **Attach data used for determination.**  
 Distance (in feet) to nearest surface water: APRX 200 ground water: NONE water wells: NONE  
**LAND USE (or attach copy of Form 2A if previously submitted for associated well) Select one which best describes land use:**  
 Crop Land:     Irrigated     Dry Land     Improved Pasture     Hay Meadow     CRP  
 Non-Crop Land:  Rangeland     Timber     Recreational     Other (describe): \_\_\_\_\_  
 Subdivided:     Industrial     Commercial     Residential  
**SOILS (or attach copy of Form 2A if previously submitted for associated well)**  
 Soil map units from USNRCS survey: Sheet No: 15 Soil Complex/Series No: 56, 63 SEE ATTACHED FORM 2A  
 Soils Series Name: \_\_\_\_\_ Horizon thickness (in inches): A: \_\_\_\_\_ ; B: \_\_\_\_\_ ; C: \_\_\_\_\_  
 Soils Series Name: \_\_\_\_\_ Horizon thickness (in inches): A: \_\_\_\_\_ ; B: \_\_\_\_\_ ; C: \_\_\_\_\_  
**Attach detailed site plan and topo map with pit location.**

**Pit Design and Construction**

Size of pit (feet): Length: 100' Width: 50' Depth: 6'  
 Calculated pit volume (bbls): 3990 Daily inflow rate (bbls/day): 14 bbls/day  
 Daily disposal rates (attach calculations): Evaporation: 3.9 bbls/day Percolation: 220 bbls/day  
 Type of liner material: POLY Thickness: 12 MIL  
**Attach description of proposed design and construction (include sketches and calculations).**  
 Method of treatment of produced water prior to discharge into pit (separator, heater treater, other): SEPARATOR  
 Is pit fenced?  Yes     No    Is pit netted?  Yes     No

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.  
 Print Name: GREG DAVIS Signed: Greg Davis  
 Title: SUPERVISOR PERMITS Date: 9/3/04  
 OGCC Approved: [Signature] Title: EPS Date: 9/13/04

CONDITIONS OF APPROVAL, IF ANY: **FACILITY NUMBER: 273640**

274717



## UNLINED EARTHEN PIT CALCULATION

TR 22-34

NWSW SECTION 34-T5S-R97W  
GARFIELD COUNTY, COLORADO

## EVAPORATION CALCULATION

- A) EVAPORATION RATE = 40 (in/yr)
- B) PIT SIZE = 100' X 50' X 6' (FREEBOARD = 10')  
SURFACE AREA = 80' X 30' = 2400 sq ft  
EVAPORATION RATE = 40 (in/yr) \* 1/12(ft/in) \* 2400 sq ft \* 1/5.615(bbls/cu ft)  
= 1424.7 (bbls/yr)  
= 3.9(bbls/day)

## PERCOLATION CALCULATION

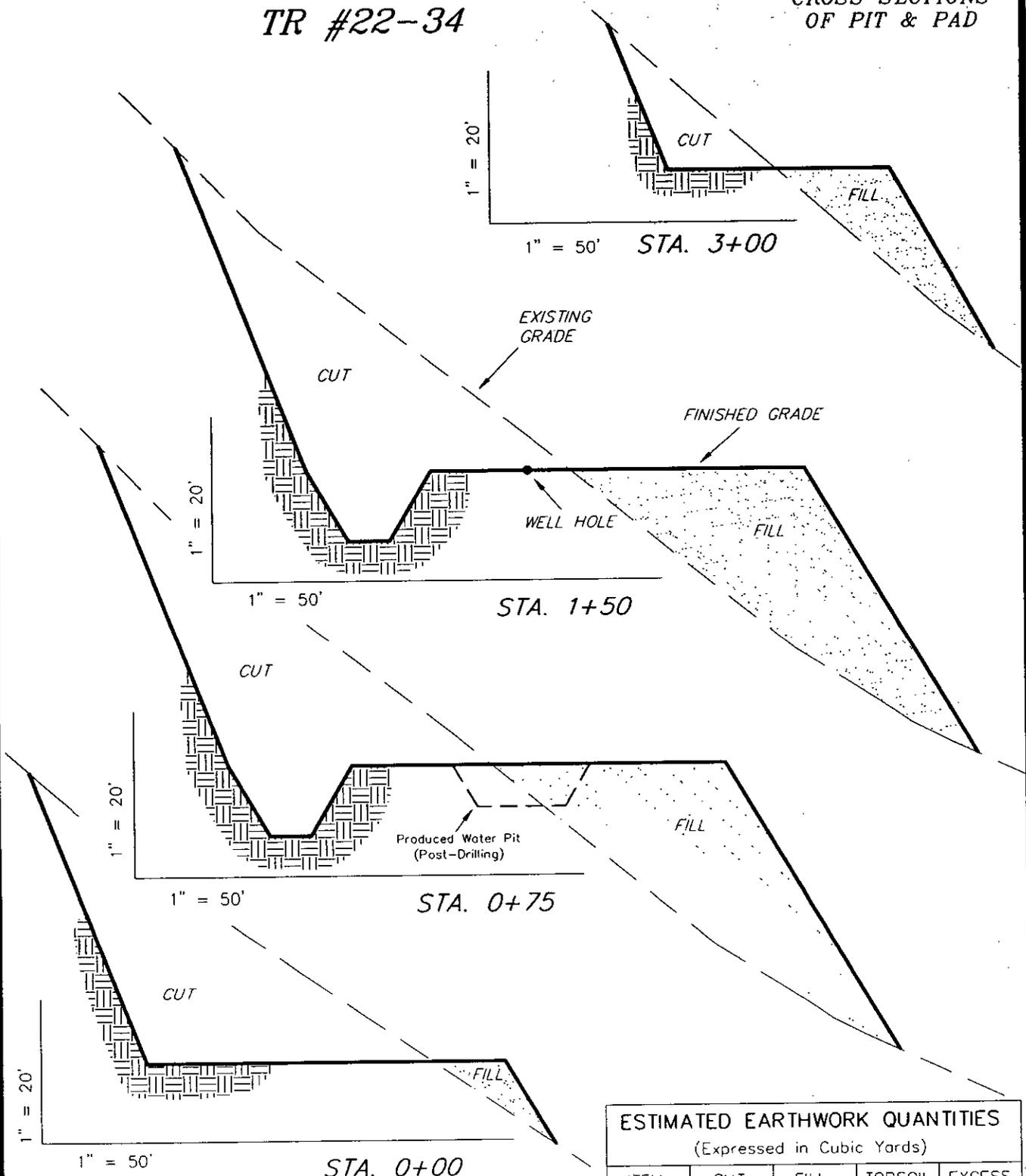
- A) FROM SOIL SURVEY OF DOUGLAS PLATEAU AREA, COLORADO, PARTS OF  
GARFIELD AND MESA COUNTIES  
SOIL TYPE: 56 (PARACHUTE-IRIGUL-RHONE ASSOCIATION)
- B) PERMEABILITY FOR 0-60" DEPTH - .06 TO 2 (in/hr) - (1.03 in/hr avg)
- C) PERCOLATION RATE = 1.03(in/hr) \* 1/12(ft/in) \* 2400(sq ft) \* 1/5.615(bbls/cu ft) \* 24(hr/day)  
= 880.1(bbls/day)
- D) ASSUME 25% EFFICIENCY DUE TO SILT CLOGGING AND CLAY SWELLING  
PERCOLATION RATE = 880.1(bbls/day) \* .25  
= 220.0(bbls/day)

WILLIAMS PRODUCTION RMT COMPANY

PLAT # 3

TR #22-34

CROSS SECTIONS  
OF PIT & PAD



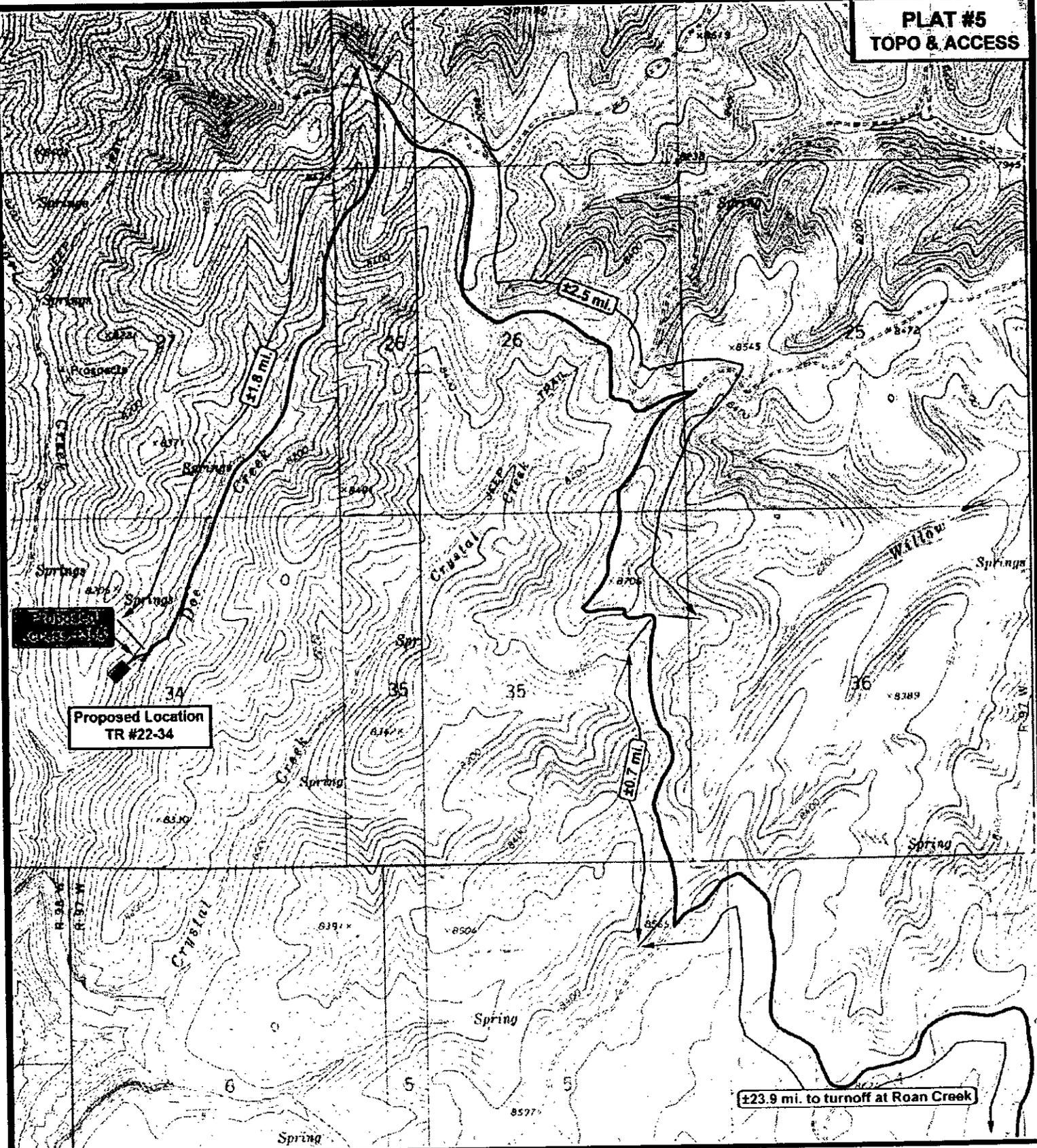
NOTE: ALL CUT SLOPES ARE 1:1 AND ALL FILL SLOPES ARE AT 1.5:1 UNLESS OTHERWISE NOTED

ESTIMATED EARTHWORK QUANTITIES (Expressed in Cubic Yards)				
ITEM	CUT	FILL	TOPSOIL	EXCESS
PAD	22,860	22,850	Topsoil is not included in Pad Cut	10
PIT	1,720	0		1,720
TOTALS	24,580	22,850	1,000	1,730

Tri State Land Surveying, Inc. (435) 781-2501  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

SURVEYED BY: T.P. SCALE: 1" = 50'  
DRAWN BY: R.V.C. DATE: 3-31-04 SHEET: 3 OF 9

**PLAT #5  
TOPO & ACCESS**



**Proposed Location  
TR #22-34**

**±23.9 mi. to turnoff at Roan Creek**

**WILLIAMS**  
PRODUCTION RMT CO.

**TR #22-34  
SEC. 34, T5S, R97W, 6th P.M.**

*Tri-State  
Land Surveying Inc.*  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

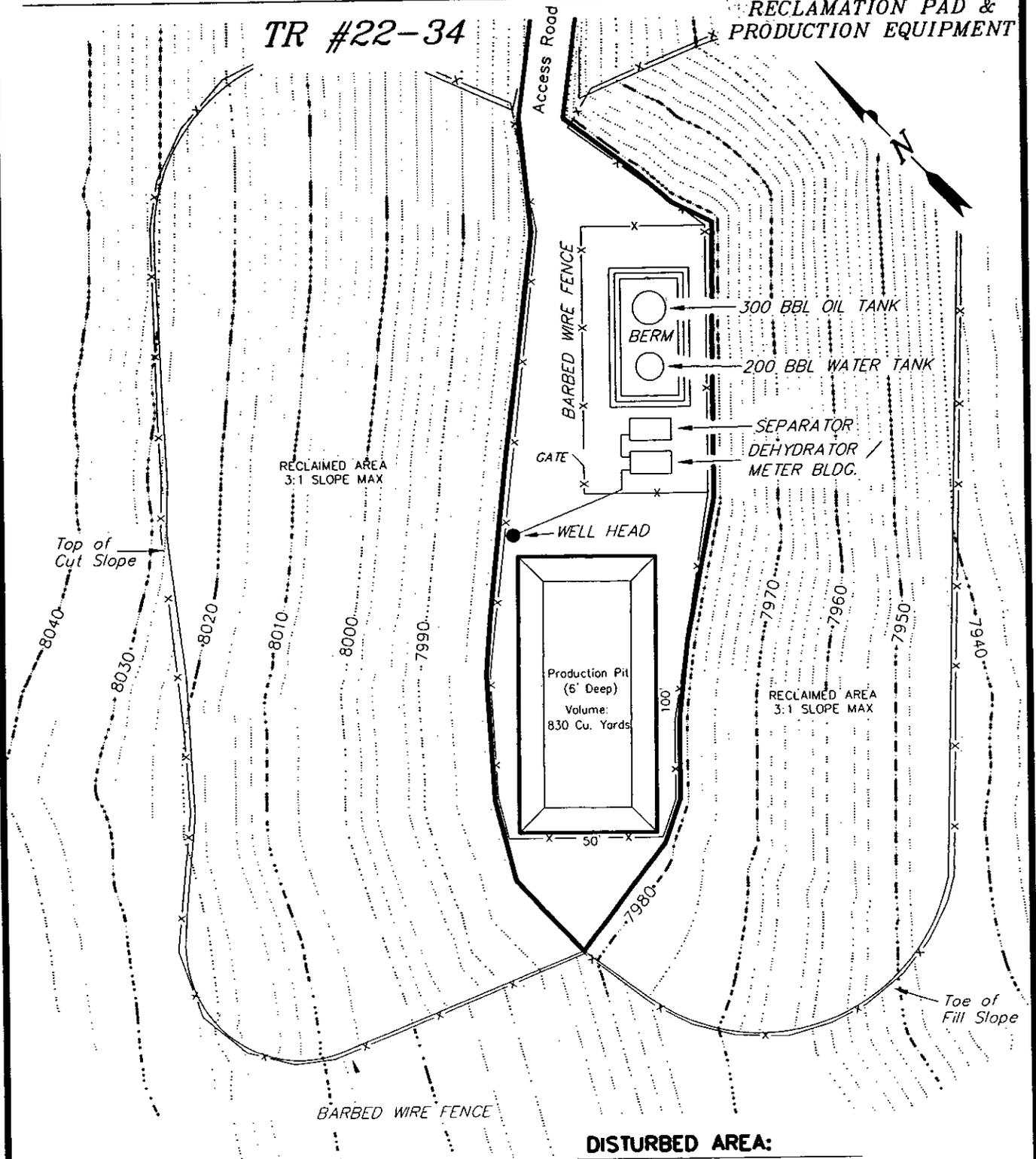
**SCALE: 1" = 2000'**  
**DRAWN BY: bgm**  
**DATE: 01-06-2004**

**Legend**  
Existing Road  
Proposed Access

**ACCESS FOOTAGES:**  
±355' of Proposed Access

TR #22-34

RECLAMATION PAD & PRODUCTION EQUIPMENT



**DISTURBED AREA:**

TOTAL DISTURBED AREA = 2.20 ACRES  
 TOTAL RECLAIMED AREA = 1.88 ACRES  
 UNRECLAIMED AREA = 0.32 ACRES

NOTE:  
 THIS IS A TYPICAL LAYOUT OF THE PRODUCTION EQUIPMENT. THE SPECIFIC EQUIPMENT LAYOUT FOR THIS WELL MAY VARY DUE TO WELL PRODUCTION AND OPERATOR'S NEEDS.

FORM 2A Rev 6/99

State of Colorado Oil and Gas Conservation Commission



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DRILL SITE/ACCESS ROAD RECLAMATION FORM

This form shall be submitted in duplicate with the application for permit-to-drill (OGCC Form 2) unless a Federal 13-point surface plan is included. Also required are a minimum of two photographs (site and access road). Soil and plant community information from United States Natural Resources Conservation Services (USNRCS).

1. OGCC Operator Number: 96850
2. Name of Operator: Williams Production RMT Company
3. Address: 1515 Arapahoe Street, Tower 3, Suite 1000
City: Denver State: CO Zip: 80202
4. Contact Name and Telephone: Greg Davis
No: (303) 606-4071
Fax: (303) 629-8285
5. Well Name and No: CHEVRON TR 22-34
6. County: Garfield
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWNW 34 5S 97W 6th P.M.

Table with 2 columns: Description, Oper. CX. Includes rows for 'Drill site and access photographs' and 'COE Section 404 documentation'.

Pre-Drilling Information Current Land Use

8. Crop Land: Irrigated, Dry Land, Improved Pasture, Hay Meadow, CRP
9. Non-crop land: Rangeland, Timber, Recreational, Other (describe)
10. Subdivided: Industrial, Commercial, Residential
Attach color photographs of drill site and access road; identify each photo by date, well name and location.

Soils

11. Soil map units from USNRCS survey: Sheet No: 15 Soil Complex/Series No: 56, 63
Soils Series name: Parachute- Irigul- Rhone association, 25 to 50% slopes Silas Loam, 1 to 12% slopes
Horizon thickness (in inches): A: 0-10" B: 10-25" C: 25-29"
Horizon thickness (in inches): A: 0-6" B: 6-13" C: 13-17"
Horizon thickness (in inches): A: 0-10" B: 10-39" C: 39-55(D) 55-59
Horizon thickness (in inches): A: 0-18" B: 18-45" C: 45-60"

Plant Community

Complete this section only if operations are to be conducted upon non-crop land.
12. Plant species from: USNRCS or Field Observation Date of Observation: 3/17/04
List individual species:
13. Check one predominant plant community for the drill site:
Disturbed Grassland, Grassland, Shrub and Brush Land, Plains Deciduous Riparian, Mountain Conifer Riparian, Evergreen Forest Land, Aquatic, Tundra
Other (describe): Oak Brush

14. Was an Army Corps of Engineers Section 404 Permit filed? Yes No If yes, attach appropriate documentation.

Comments:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access road; that I am familiar with the conditions which presently exist, that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Greg Davis
Signed: Greg Davis Title: Supervisor Permits Date: 4/19/04