

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

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: 10150
 Name of Operator: Black Hills Plateau Production
 Address: 1515 Wynkoop St., Suite 500
 City: Denver State: CO Zip: 80202

Contact Name and Telephone:
Jessica Donahue
 No: 720-210-1333
 Fax: 303-566-3344

API Number (of associated well): 05-077-09439 OGCC Facility ID (of other associated facility): Location #312742
 Pit Location (QtrQtr, Sec, Twp, Rng, Meridian): NENE Sect. 21, T8S R98W, 6th PM eForm Doc #400103406
 Latitude: 39.35027 Longitude: -108.32446 County: Mesa (077)

Pit Use: Production Drilling (Attach mud program) Special Purpose (Describe Use): Hold freshwater for frac and flowback water
 Pit Type: Lined Unlined Surface Discharge Permit: Yes No
 Offsite disposal of pit contents: Injection Commercial Pit/Facility Name: Hancock Gulch #1 Pit/Facility No: 159293
Attach Form 26 to identify Source Wells and Form 25 to provide Produced Water Analysis results. OR will be trucked to Danish Flats in Cisco, UT

Existing Site Conditions

Is the location in a "Sensitive Area?" Yes No Attach data used for determination.
 Distance (in feet) to nearest surface water: 228' ground water: 40' water wells: 9134'
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 form USNRCS survey: Sheet No: _____ Soil Complex/Series No: 76
 Soils Series Name: Wrayha-Veatch-Rabbitex 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: 235' Width: 100' Depth: 15'
 Calculated pit volume (bbls): 34,940 Daily inflow rate (bbls/day): 50 bbls for drilling; 1,800 bbls during flowback
 Daily disposal rates (attach calculations): Evaporation: 25 bbls/day Percolation: _____ bbls/day
 Type of liner material: PVC Thickness: 24 mm
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): Produced water will be stored in a tank
 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: Jessica Donahue Signed: J Donahue
 Title: Regulatory Technician Date: 10/26/10

OGCC Approved: _____ Title: _____ Date: _____

CONDITIONS OF APPROVAL, IF ANY:

FACILITY NUMBER:

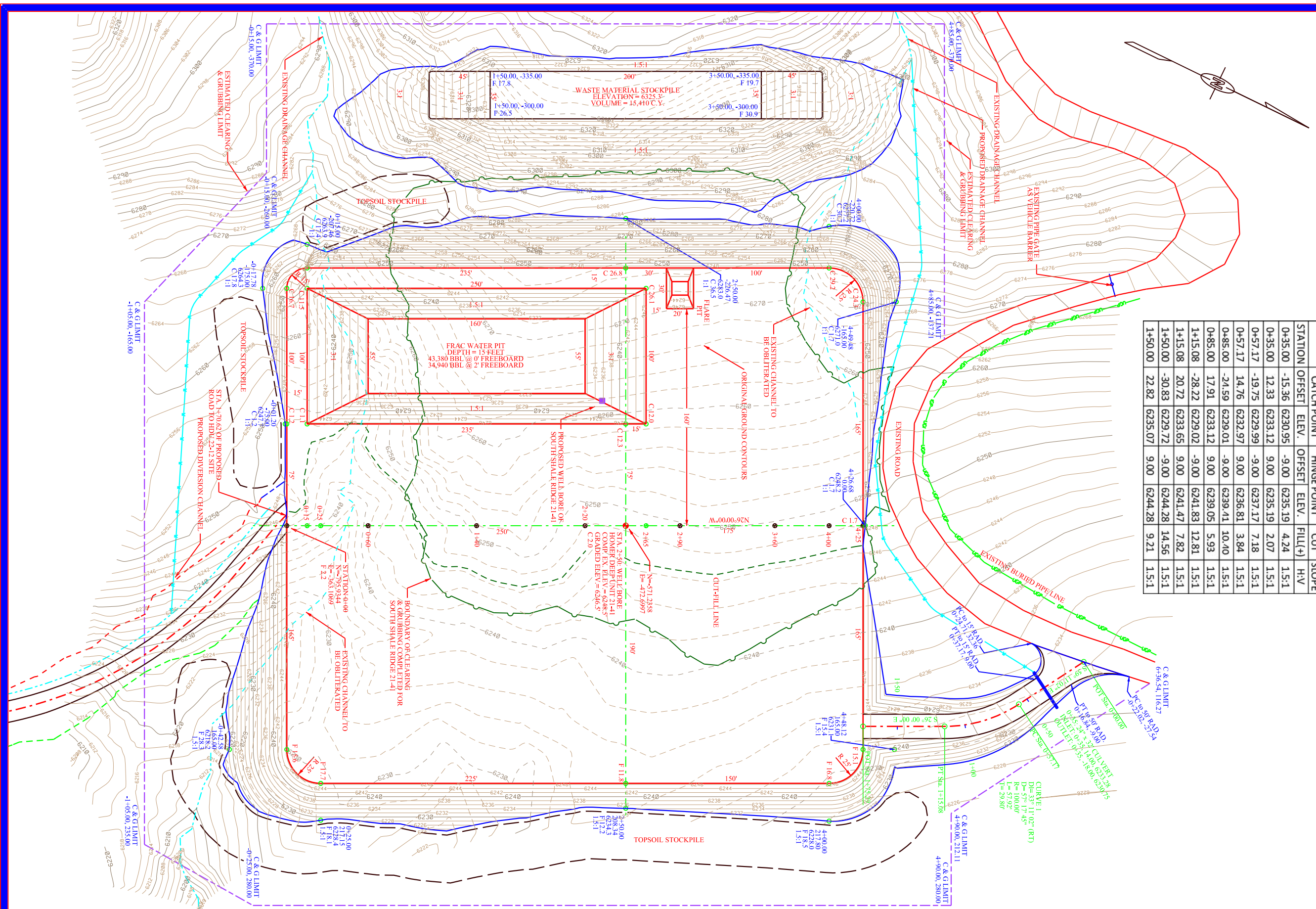
ESTIMATED EARTHWORK QUANTITIES

PAD TOPSOIL (6" DEPTH)	3,690 C.Y.
ROAD TOPSOIL (6" DEPTH)	120 C.Y.
PAD EXCAVATION	54,550 C.Y.
ROAD EXCAVATION	0 C.Y.
PAD EMBANKMENT (10% SHRINK ASSUMED)	35,500 C.Y.
ROAD EMBANKMENT (10% SHRINK ASSUMED)	1,640 C.Y.
WASTE MATERIAL	15,410 C.Y.
TOTAL EARTHWORK VOLUME	58,240 C.Y.

NEW ROAD CUT-FILL TABLE

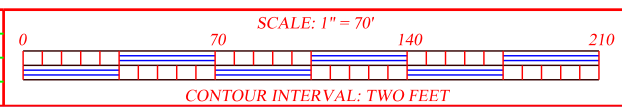
STATION	CATCH POINT OFFSET	ELEV.	HINGE POINT OFFSET	ELEV.	CUT	FILL(+)	SLOPE
0+35.00	-15.36	6230.95	-9.00	6235.19	4.24	1.5:1	
0+35.00	12.33	6233.12	9.00	6235.19	2.07	1.5:1	
0+57.17	-19.75	6229.99	-9.00	6237.17	7.18	1.5:1	
0+57.17	14.76	6232.97	9.00	6236.81	3.84	1.5:1	
0+85.00	-21.59	6229.01	-9.00	6239.41	10.40	1.5:1	
0+85.00	17.91	6233.12	9.00	6239.05	5.93	1.5:1	
1+15.08	-28.22	6229.02	-9.00	6241.83	12.81	1.5:1	
1+15.08	20.72	6233.65	9.00	6241.47	7.82	1.5:1	
1+50.00	-30.83	6229.72	-9.00	6244.28	14.56	1.5:1	
1+50.00	22.82	6235.07	9.00	6244.28	9.21	1.5:1	

- WELL SITE DESIGN AND CONSTRUCTION NOTES:
- The well pad elevation was selected to place the rig sub-structure on cut earth at the maximum elevation possible.
 - The approximate volume of the frac water pit is 9,010 C.Y. Material for reserve pit reclamation will be obtained from the waste material stockpile. The pad size will be reduced during the site reclamation for production. See Exhibit IX: Site Reclamation Grading Plan.
 - The area of the proposed pad, waste material stockpile and road is 5.58 acres within the computed catch lines. This area does not include the area occupied by topsoil stockpiles nor the small additional area required for grading machine travel.
 - The area within the estimated clearing and grubbing limits is 8.58 acres. The limits are planned to lie approximately 15 feet outside the computed catch lines of cut and fill slopes.



PREPARED BY:
P.E. GROSCHE CONSTRUCTION, INC.
 SURVEYORS - ENGINEERS - CONSTRUCTORS
 P. O. BOX 36 WORLAND, WY 82401 (307)347-3332

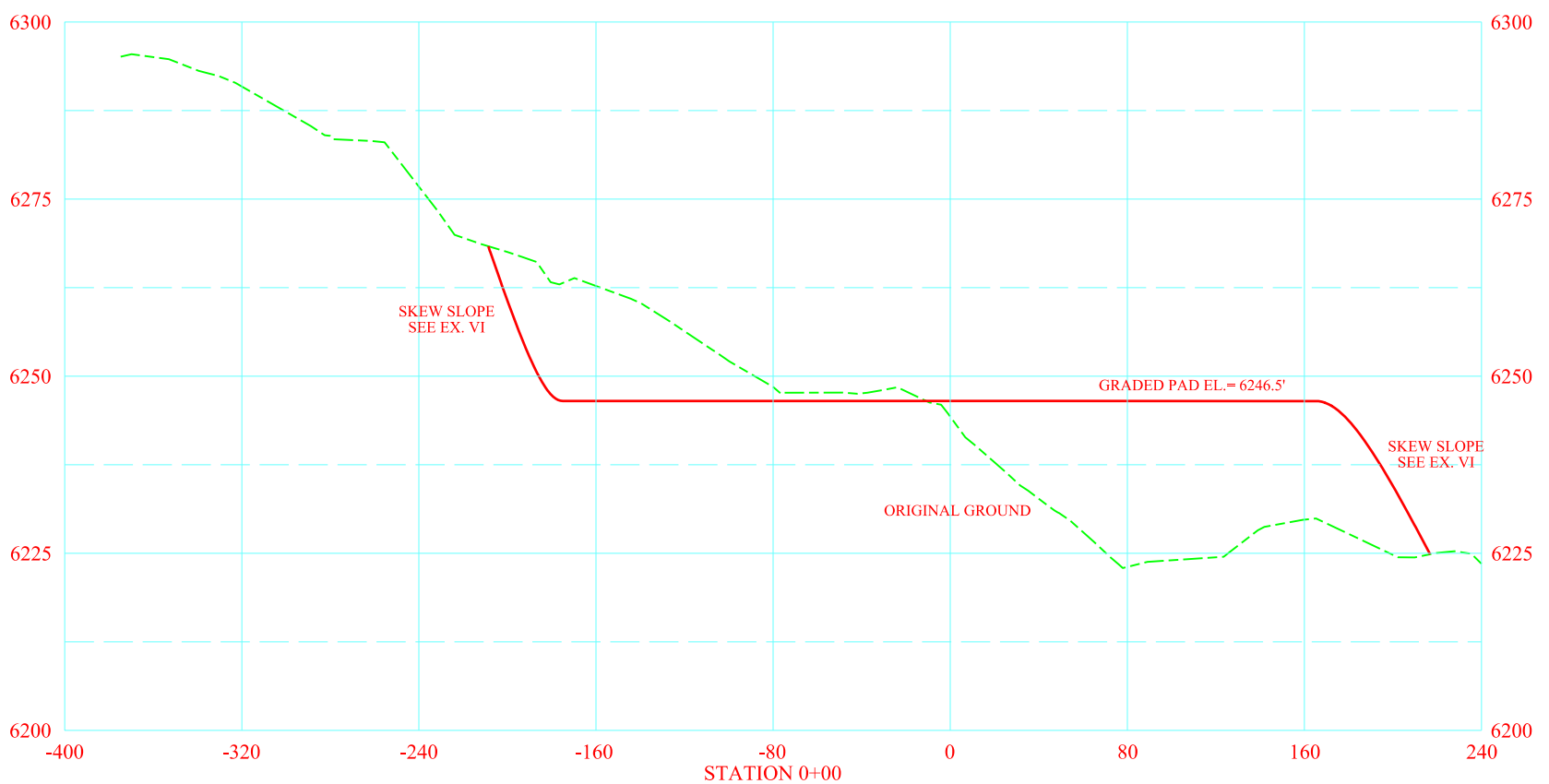
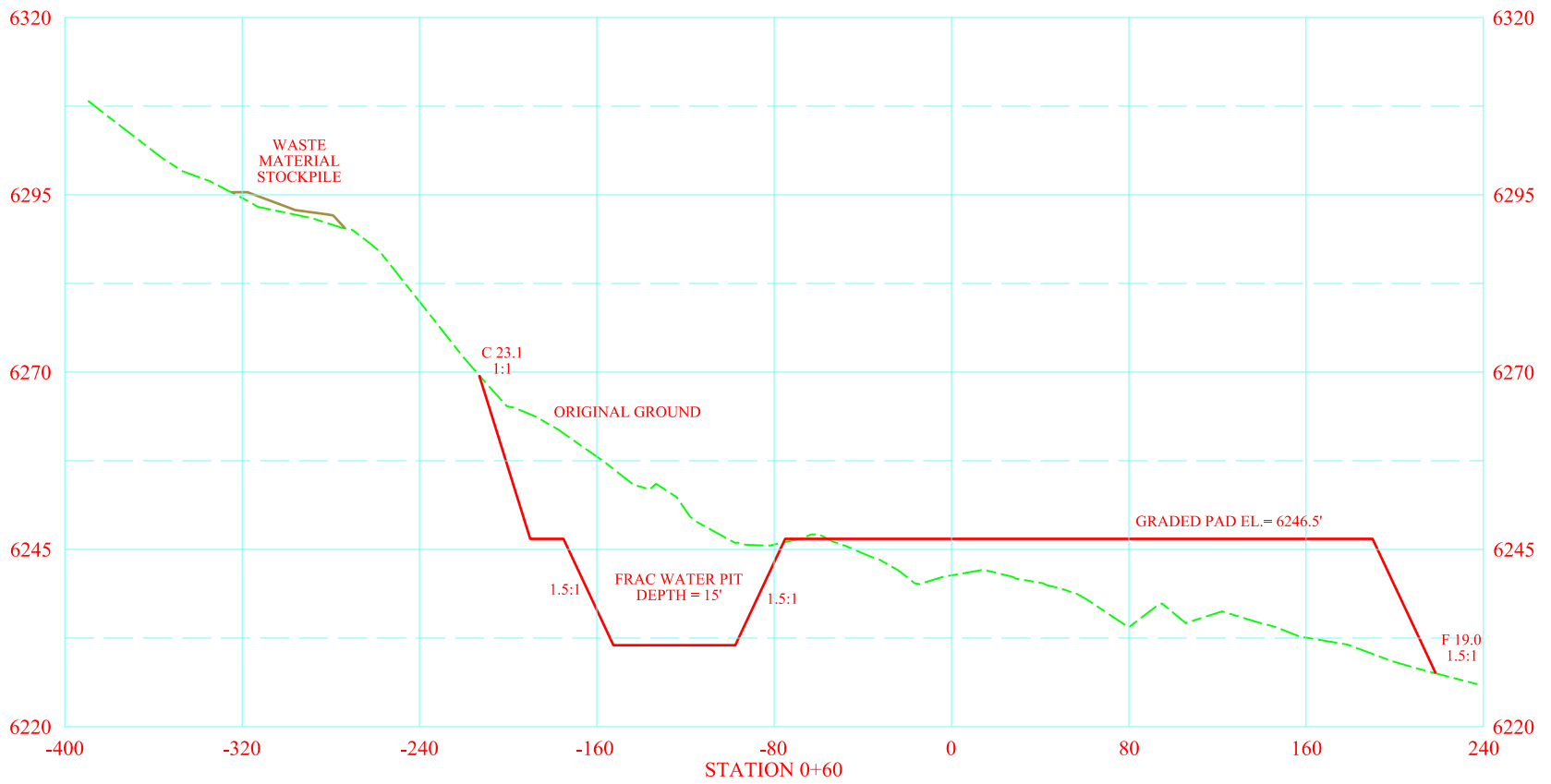
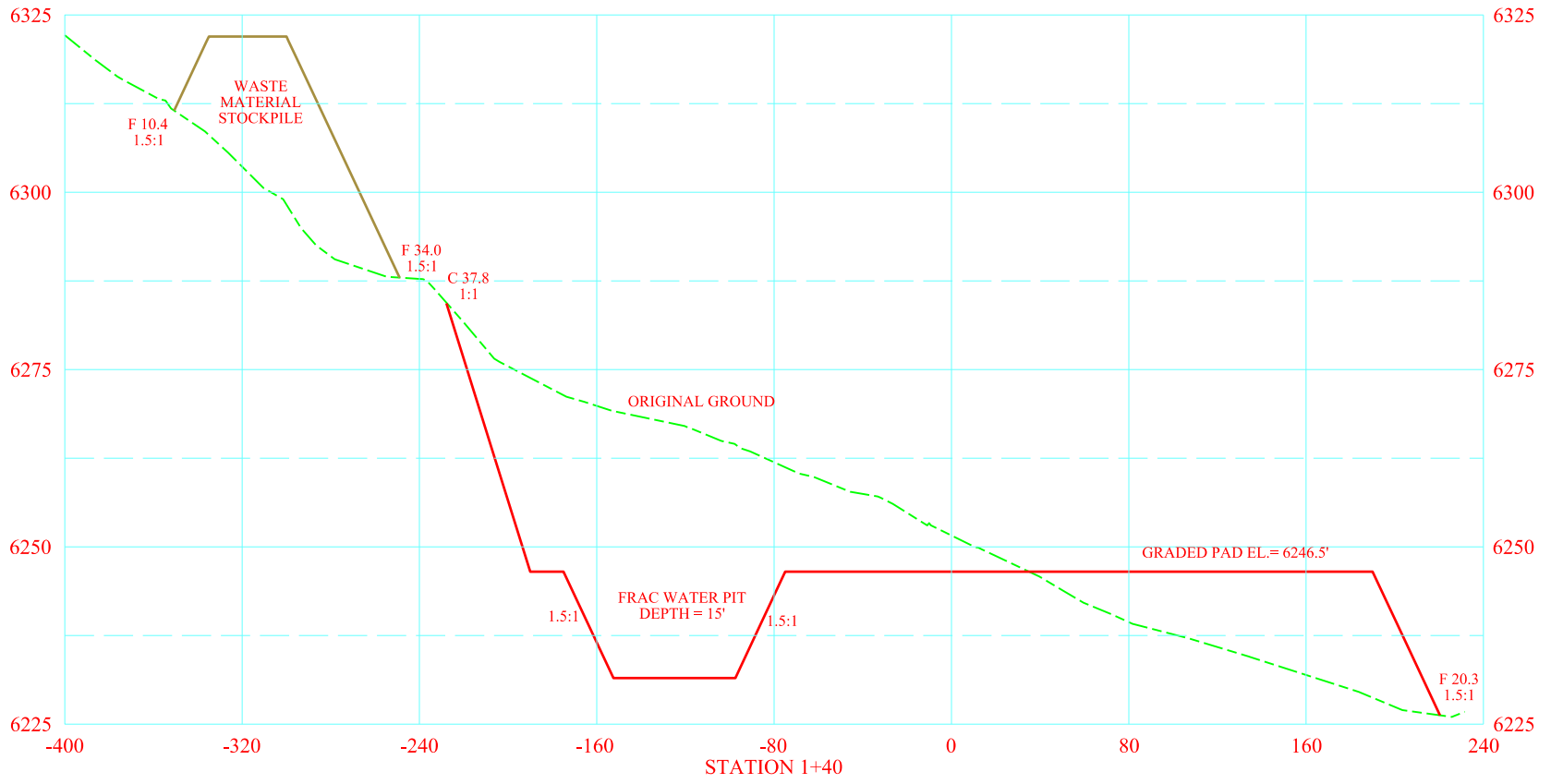
SUR:	AMG	10/19/20	PRJ. #:	96110
DES:	SAG	10/20/10	REC:	80-84
DWN:	SAG	10/21/10	FILE:	T7400/GpkData-v8/Client/Black Hills E&P/Colo/Mesa
REV:			DWG:	96110-HDU 21-41/Dgn/961_ex6-site



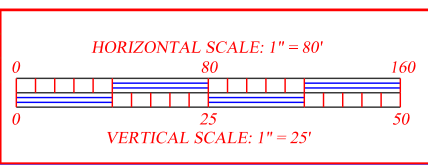
OWNER
**BLACK HILLS PLATEAU
 PRODUCTION COMPANY, LLC**
 DENVER, COLORADO

PROJECT
HOMER DEEP UNIT 21-41
 NE ¼ MESA, SECTION 21, T. 8 S., R. 98 W.
 MESA COUNTY, COLORADO

DRAWING TITLE
EXHIBIT VI
 DRAWING DESCRIPTION
WELL SITE GRADING PLAN



PRJ. #: 96110	SUR: AMG	9/19/10
REC: 80-84	DES: SAG	9/20/10
DWG: 96i10_ex7-xsec	DWN: SAG	9/21/10
PREPARED BY: P.E. GROSCH CONSTRUCTION, INC. SURVEYORS - ENGINEERS - CONSTRUCTORS P. O. BOX 36 WORLAND, WY 82401 (307)347-3332		



OWNER

**BLACK HILLS PLATEAU
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PROJECT

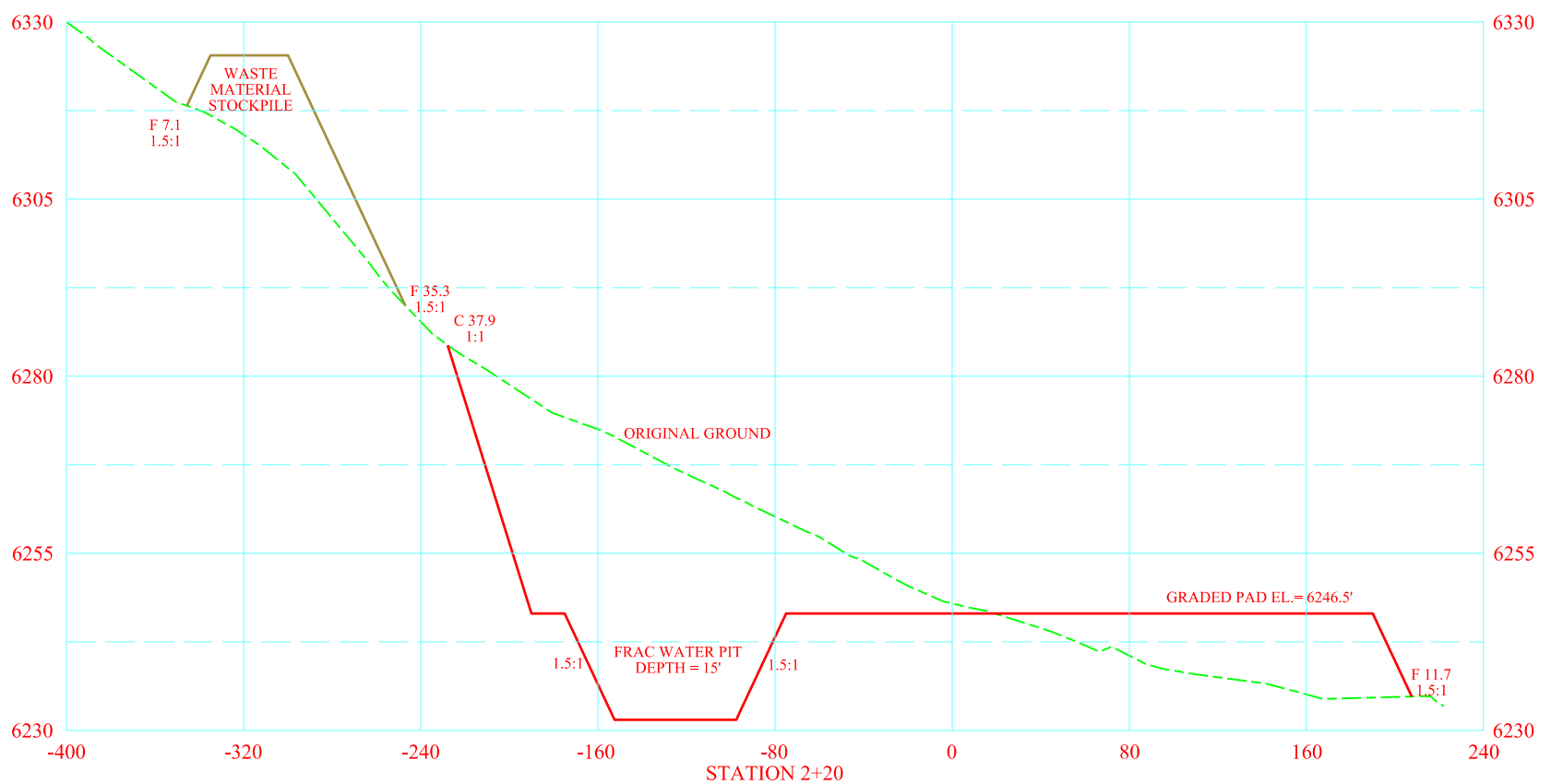
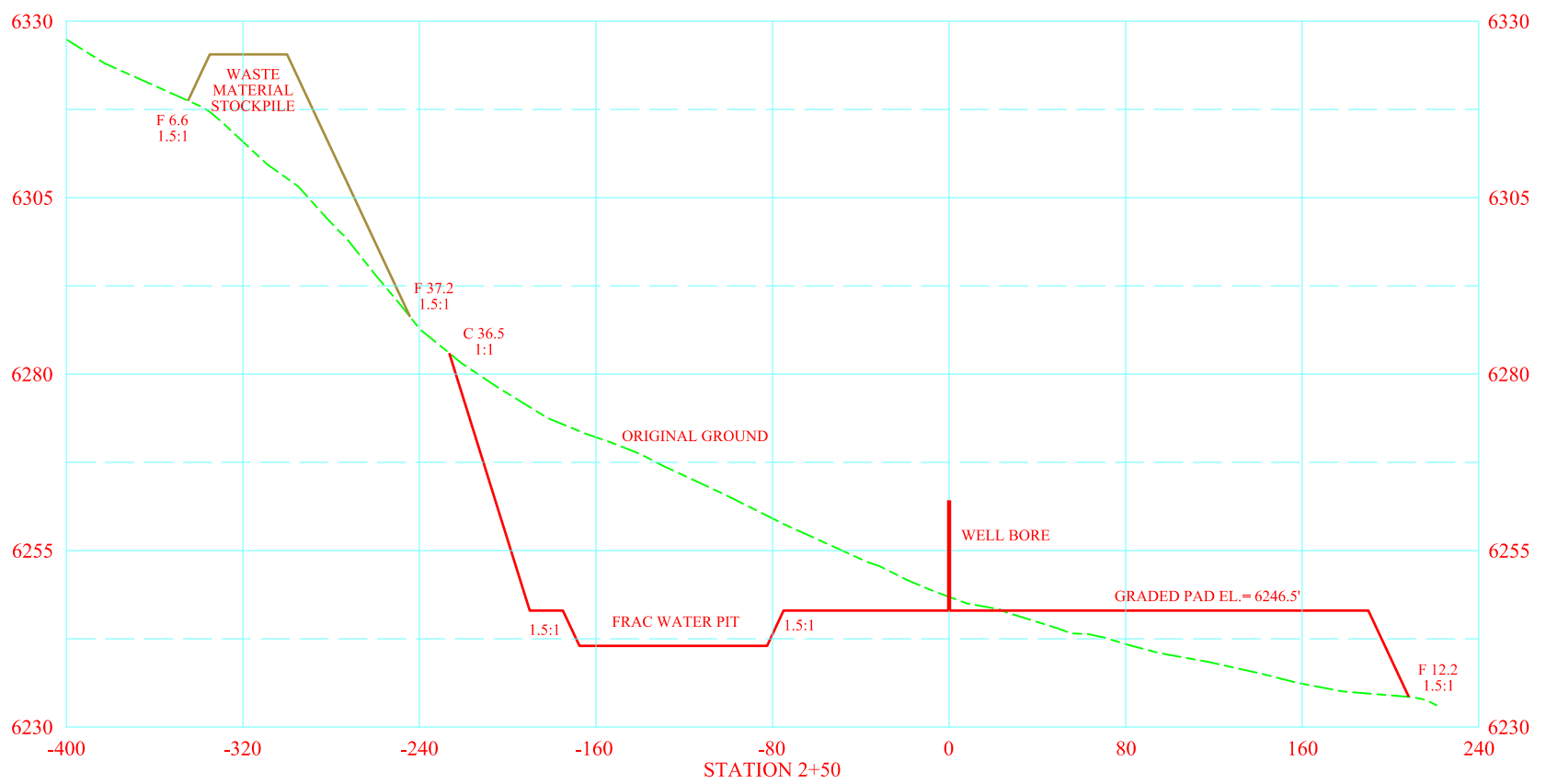
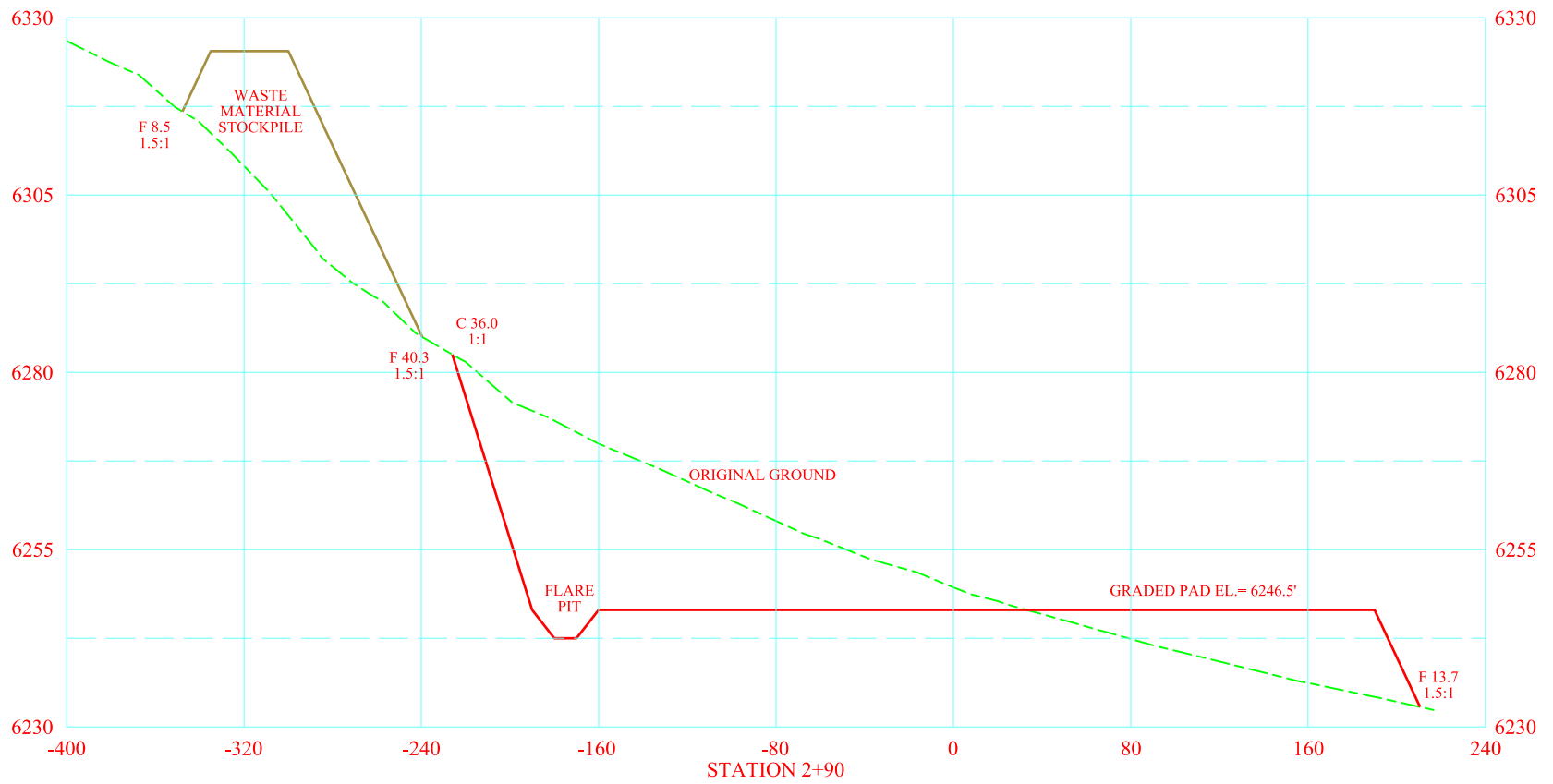
**HOMER DEEP UNIT 21-41
NE¼ NE¼, SECTION 21
T 8S, R 98 W
MESA COUNTY, COLORADO**

DRAWING TITLE

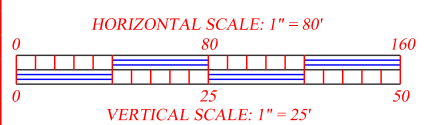
EXHIBIT VII-A

DRAWING DESCRIPTION

**WELL SITE
CROSS-SECTIONS (1 OF 3)**



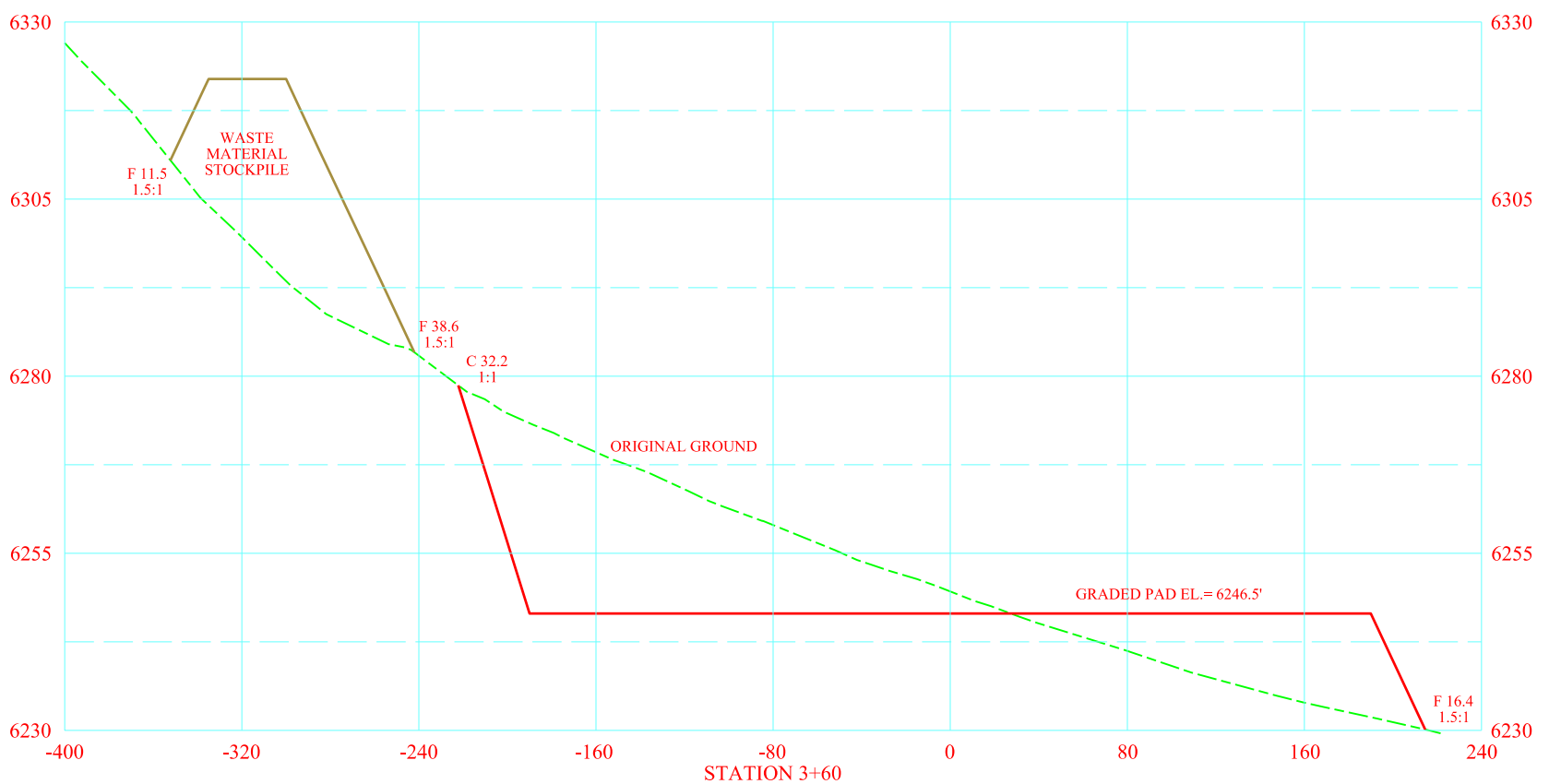
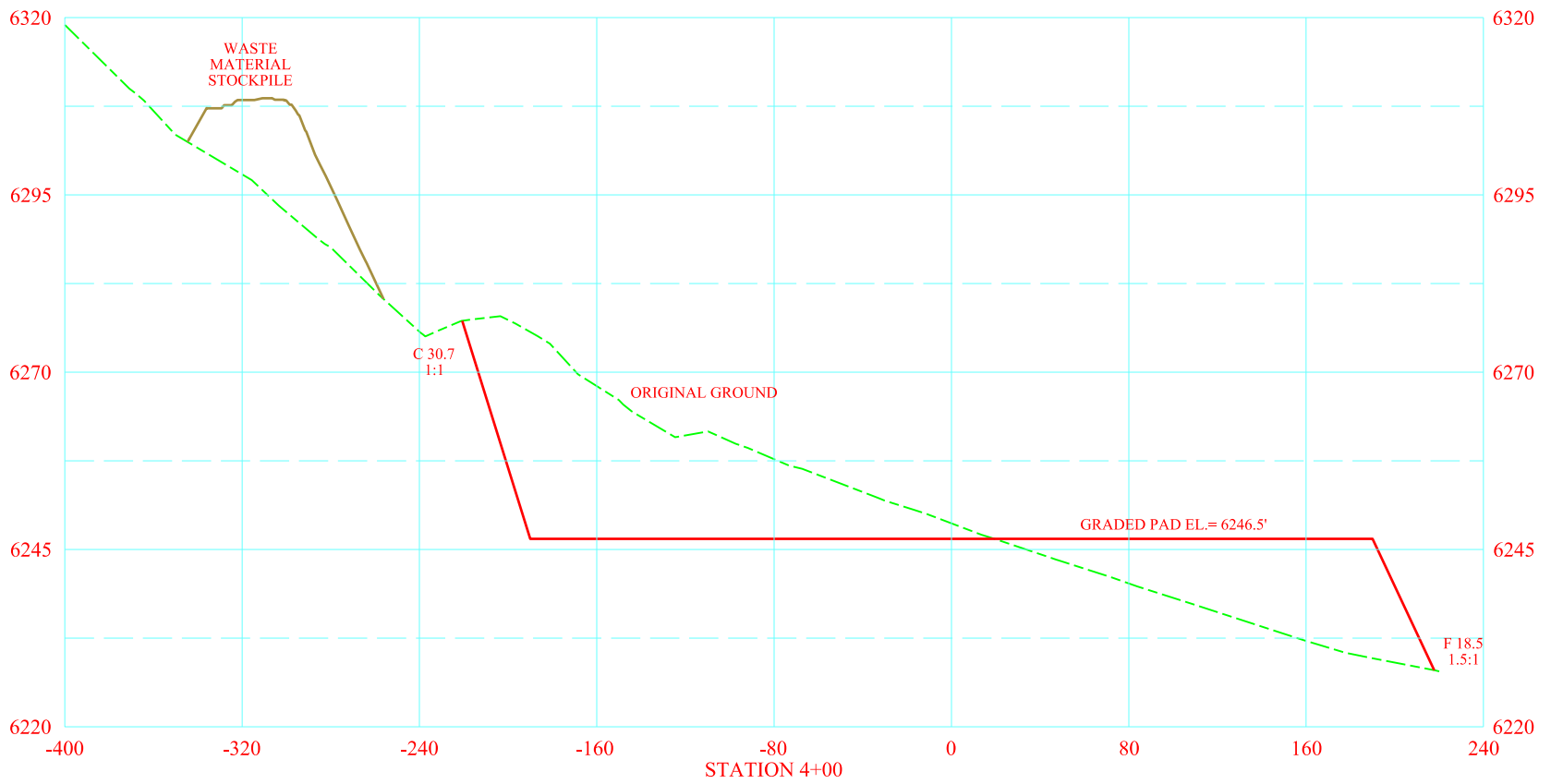
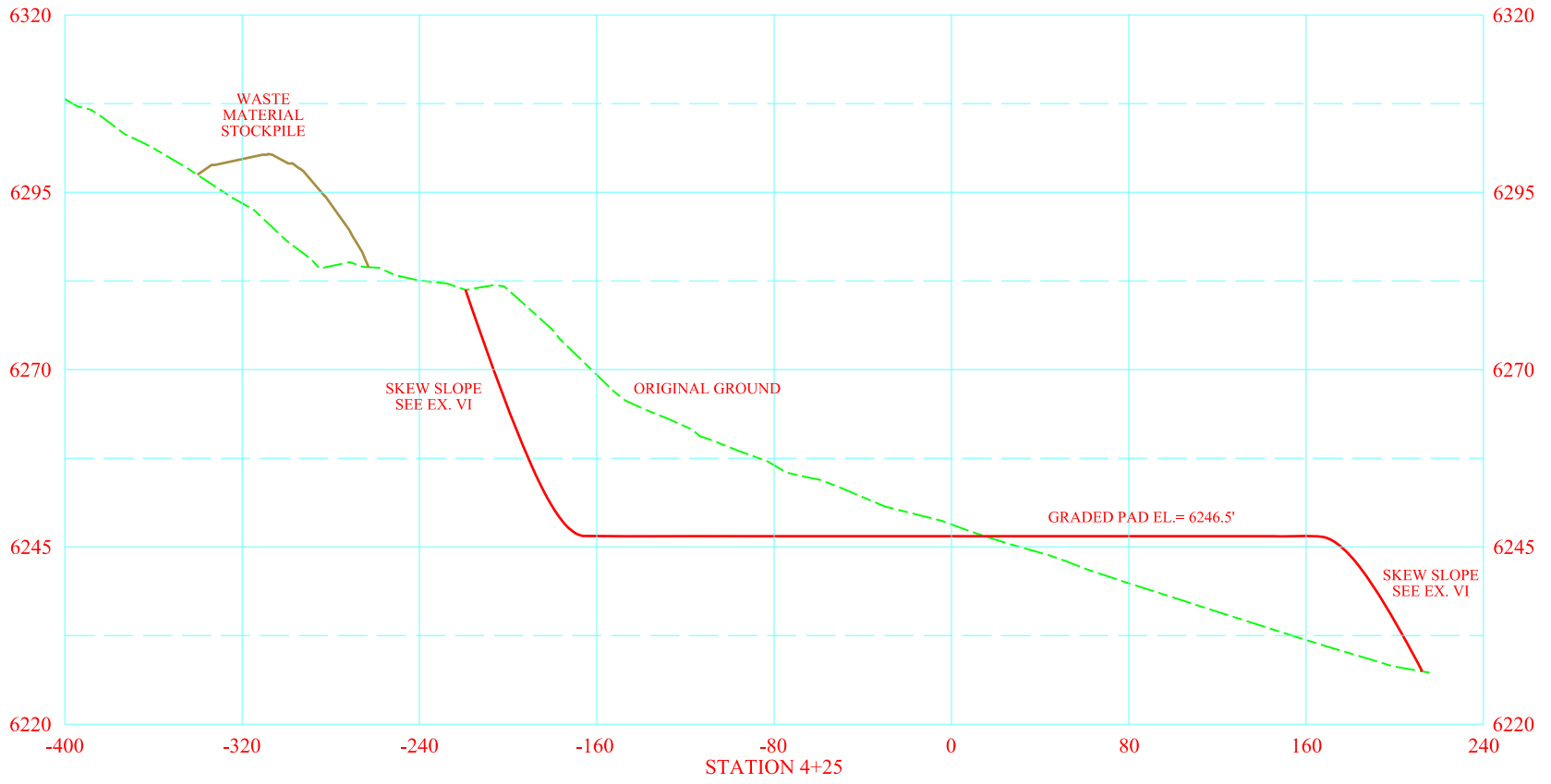
PRJ. #:	96110	SUR:	AMG	9/19/10
REC:	80-84	DES:	SAG	9/20/10
DWG:	96i10_ex7-xsec	DWN:	SAG	9/21/10
PREPARED BY: P.E. GROSCH CONSTRUCTION, INC. SURVEYORS - ENGINEERS - CONSTRUCTORS P. O. BOX 36 WORLAND, WY 82401 (307)347-3332				



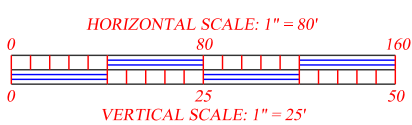
OWNER
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DENVER, COLORADO**

PROJECT
**HOMER DEEP UNIT 21-41
NE¼ NE¼, SECTION 21
T 8S, R 98 W
MESA COUNTY, COLORADO**

DRAWING TITLE
EXHIBIT VII-B
DRAWING DESCRIPTION
**WELL SITE
CROSS-SECTIONS (2 OF 3)**



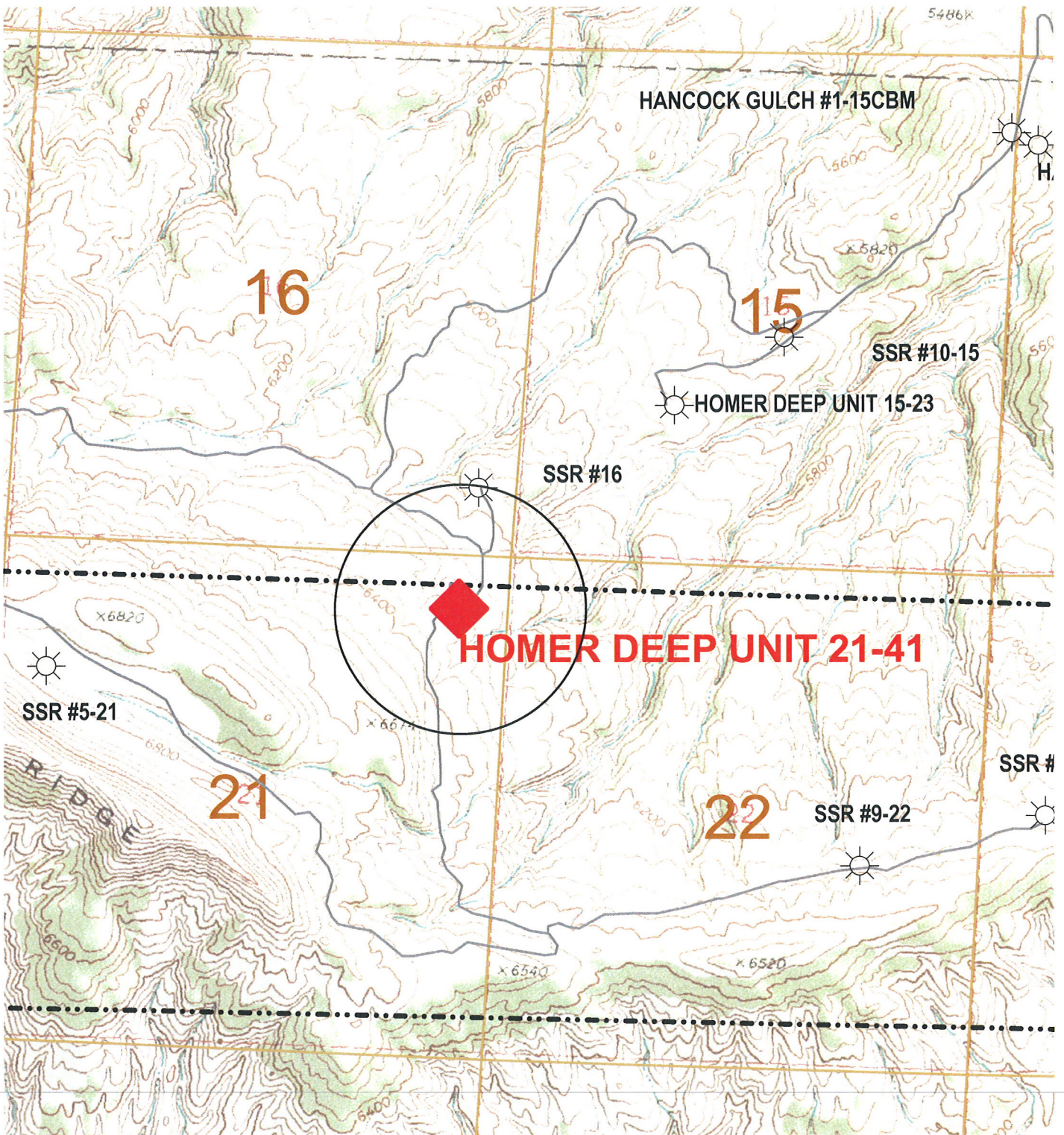
PRJ. #: 96110	SUR: AMG	9/19/10
REC: 80-84	DES: SAG	9/20/10
DWG: 96i10_ex7-xsec	DWN: SAG	9/21/10
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T 8S, R 98 W
MESA COUNTY, COLORADO**

DRAWING TITLE
EXHIBIT VII-C
DRAWING DESCRIPTION
**WELL SITE
CROSS-SECTIONS (3 OF 3)**



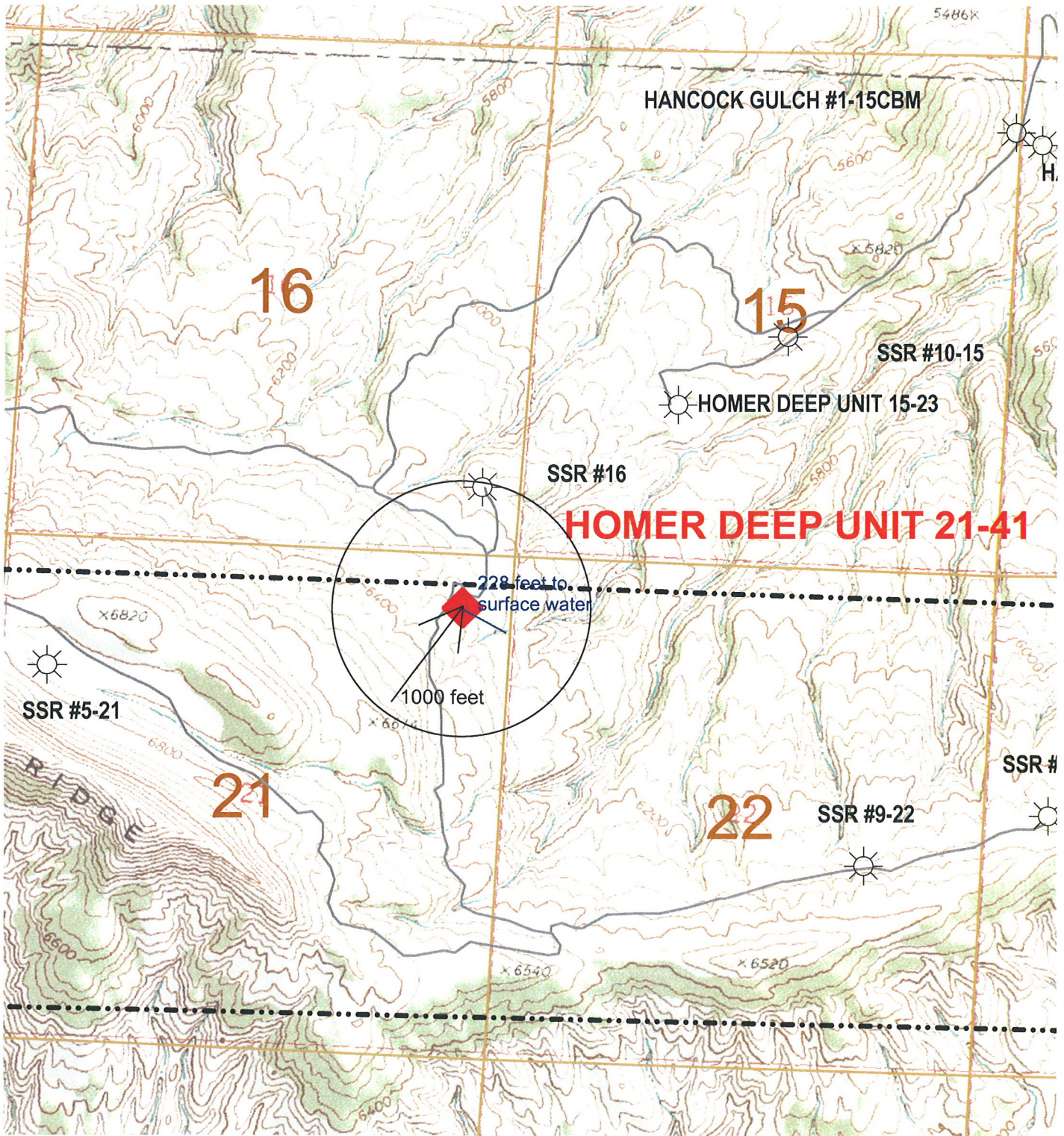
Black Hills Exploration & Production
Black Hills Plateau Properties

350 Indiana Street, Suite 400
Golden, CO 80401
Ph: 720 210 1300
Fax: 720 210 1301

Hydrology Map 1000 foot Radius

Engineer(s): Childers
Geologist(s): R.White
Land Dept.: Thorpe/ast
Permitting: Vocoman/Donahue
Eng & GeoTech(s): Whitten

Date(s): 2010 January 12



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