



02470359

05-083-06680

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

MAY 01 2009

COGCC

Attachment Checklist

Oper OGCC

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.

FORM SUBMITTED FOR:

☐ Pit Report☒ Pit Permit

OGCC Operator Number: 8725

Name of Operator: Black Resources, Inc.

Address: 320 Mustang Trail

City: Granbury State: TX Zip: 76049

Contact Name and Telephone:

Bill Black

No: 817-573-8444

Fax: 817-579-1144

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

API Number (of associated well): 05-083- OGCC Facility ID (of other associated facility):

Pit Location (QtrQtr, Sec, Twp, Rng, Meridian): SWNE, 3, 37N, 14W, NMPM

Latitude: 37.495358 Longitude: 108.380266 County: Montezuma

Pit Use: ☐ Production ☒ Drilling (Attach mud program) ☐ Special Purpose (Describe Use):Pit Type: ☒ Lined ☐ Unlined Surface Discharge Permit: ☐ Yes ☒ NoOffsite disposal of pit contents: ☐ Injection ☒ Commercial Pit/Facility Name: Reams (Naturita) Pit/Facility No: 297786

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: 370 ground water: NA water wells: NA

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 ☐ CRPNon-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: Haycamp Soil Complex/Series No: 552

Soils Series Name: Burnsom loam 1-15% slopes 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: 10'

Calculated pit volume (bbls): 8905 Daily inflow rate (bbls/day): NA

Daily disposal rates (attach calculations): Evaporation: 8 bbls/day Percolation: NA bbls/day

Type of liner material: Plastic Thickness: 24mm

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: William D. Black

Signed: William D. Black

Title: President

Date: 3/23/2009

OGCC Approved: Title: Date:

CONDITIONS OF APPROVAL, IF ANY:

FACILITY NUMBER:

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

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☐ Pit Report

☒ Pit Permit

OGCC Operator Number: 8725

Name of Operator: Black Resources, Inc.

Address: 320 Mustang Trail

City: Granbury State: TX Zip: 76049

Contact Name and Telephone:

Bill Black

No: 817-573-8444

Fax: 817-579-1144

Complete the Attachment Checklist

Oper OGCC

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

API Number (of associated well): 05-083- OGCC Facility ID (of other associated facility):

Pit Location (QtrQtr, Sec, Twp, Rng, Meridian): SWNE,3,37N,14W,NMPM

Latitude: 37.495358 Longitude: 108.380266 County: Montezuma

Pit Use: ☒ Production ☐ Drilling (Attach mud program) ☐ Special Purpose (Describe Use):Pit Type: ☒ Lined ☐ Unlined Surface Discharge Permit: ☐ Yes ☒ NoOffsite disposal of pit contents: ☐ Injection ☒ Commercial Pit/Facility Name: Reams (Naturita) Pit/Facility No: 297786

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: 370 ground water: NA water wells: NA

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 ☐ CRPNon-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: Haycamp Soil Complex/Series No: 552

Soils Series Name: Burnsom loam 1-15% slopes 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: 300 Width: 100 Depth: 12

Calculated pit volume (bbls): 53432 Daily inflow rate (bbls/day): NA

Daily disposal rates (attach calculations): Evaporation: 75.5 bbls/day Percolation: NA bbls/day

Type of liner material: Plastic Thickness: 24mm

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: William D. Black

Signed: William D. Black

Title: President

Date: 3/28/2009

OGCC Approved: Title: Date:

CONDITIONS OF APPROVAL, IF ANY:

FACILITY NUMBER:

State of Colorado Oil and Gas Conservation Commission

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



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Address: 320 Mustang Trail

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Contact Name and Telephone:

Bill Black

No: 817-573-8444

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API Number (of associated well): 05-083-

OGCC Facility ID (of other associated facility):

Pit Location (QtrQtr, Sec, Twp, Rng, Meridian): SWNE,3,37N,14W,NMPM

Latitude: 37.495358

Longitude: 108.380266

County: Montezuma

Pit Use: ☐ Production ☐ Drilling (Attach mud program) ☒ Special Purpose (Describe Use): Flare PitPit Type: ☐ Lined ☒ Unlined Surface Discharge Permit: ☐ Yes ☒ NoOffsite 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: 370 ground water: NA water wells: NA

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Soils Series Name: Burnsom loam 1-15% slopes 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: 26' Width: 26' Depth: 10'

Calculated pit volume (bbls): 300 Daily inflow rate (bbls/day): NA

Daily disposal rates (attach calculations): Evaporation: NA bbls/day Percolation: NA bbls/day

Type of liner material: NA Thickness: NA

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: William D. Black

Signed: William D. Black

Title: President

Date: 3/28/2009

OGCC Approved: Title: Date:

CONDITIONS OF APPROVAL, IF ANY:

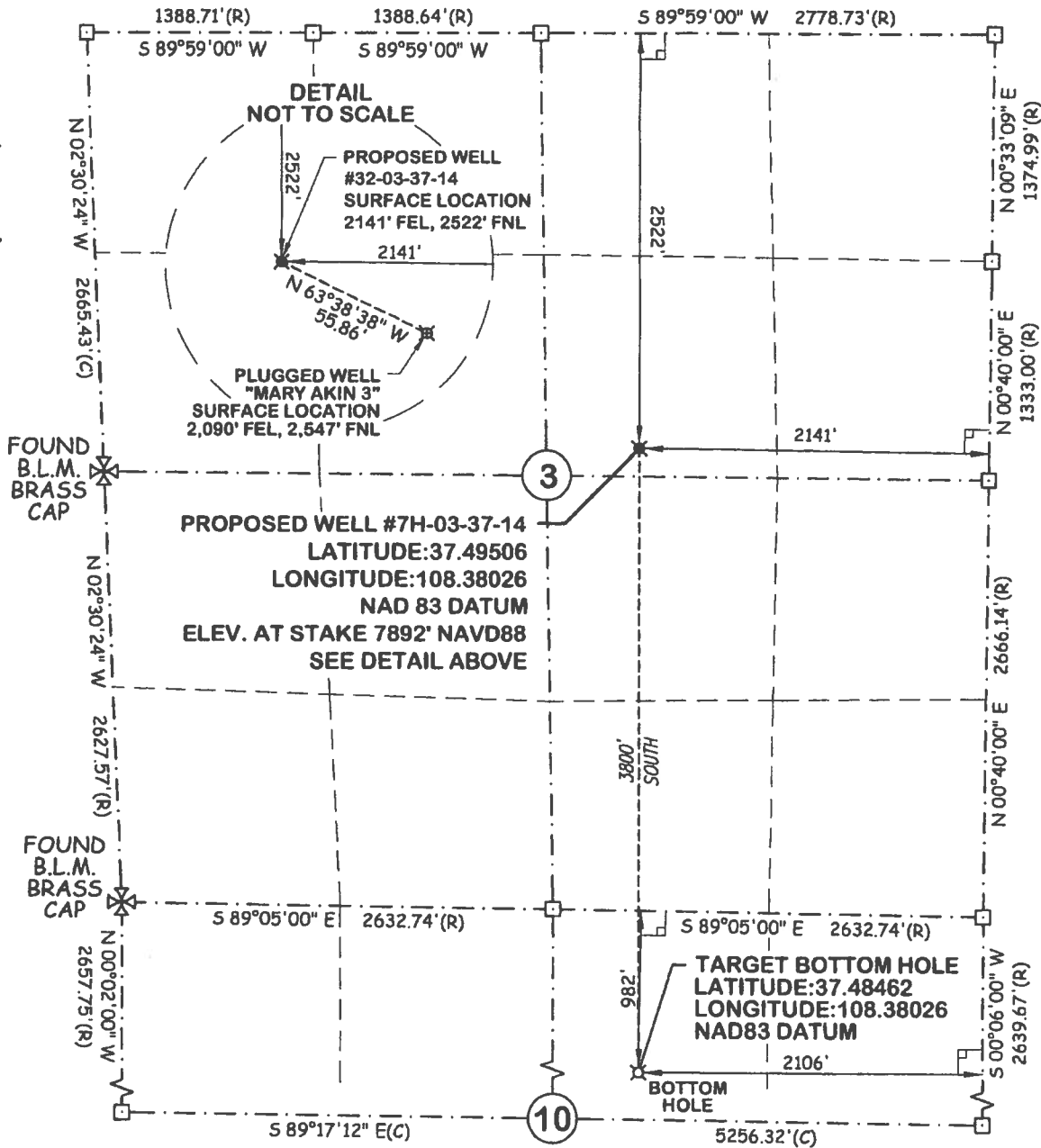
FACILITY NUMBER:

BLACK-STATE 7H-03-37-14

COMPANY: BLACK RESOURCES, INC. LEASE# 93/1025 WELL# BLACK-STATE 7H-03-37-14
 SURFACE HOLE LOCATION: 2522 FEET FROM THE NORTH LINE AND 2141 FEET FROM THE EAST LINE
 SW4 NE4 SEC.3 T.37 N., R.14 W., N.M.P.M. MONTEZUMA COUNTY, COLORADO
 BOTTOM HOLE LOCATION: 982 FEET FROM THE NORTH LINE AND 2106 FEET FROM THE EAST LINE
 NW4 NE4 SEC.10 T.37 N., R.14 W., N.M.P.M. MONTEZUMA COUNTY, COLORADO

ELEVATION AT STAKE: 7892' NAVD SCALE: 1"=1000' GPS INSTRUMENT OPERATOR: GENE REININGER

GRAPHIC SCALE IN FEET
 0 500 1000 2000
 1 INCH EQUALS 1,000 FEET



BASIS OF BEARINGS:
 GEODETIC BEARINGS AS DETERMINED
 BY GPS RTK OBSERVATION.

BASIS OF ELEVATION:
 STATIC GPS OBSERVATION FROM NGS OPUS-RS SOLUTION
 USING CORS STATIONS PID A0265, D13419, DH5816,
 D12245, D12813, AND HM0026

NOTES:

1. THE FIELD-MEASURED DISTANCES FROM THE NEARER NORTH/SOUTH AND NEARER EAST/WEST SECTION LINES ARE MEASURED AT NINETY (90) DEGREES FROM SAID SECTION LINES TO THE WELL LOCATION AND REFERENCED ON THE PLAT.
2. THERE ARE NO VISIBLE IMPROVEMENTS WITHIN 200 FEET OF WELLHEAD.
3. SURFACE USE WITHIN 200 FOOT RADIUS OF WELLHEAD IS NATURAL GROUND.
4. RECORD DIMENSIONS PER B.L.M. SURVEY DATED 1973.
5. GPS POSITIONS COLLECTED AT PDOP VALUE OF 6 OR LESS.
6. DATE OF SURVEY NOVEMBER 12, 2008

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY DIRECT SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Clyde J. King



LEGEND:

- ✕ SECTION CORNER AS NOTED.
- CALCULATED FROM RECORD INFORMATION.
- PROPOSED WELL LOCATION
- ✕ PLUGGED WELL LOCATION
- ✕ BOTTOM HOLE LOCATION
- (C) CALCULATED BEARING AND DISTANCE
- (R) RECORD BEARING AND DISTANCE
- (M) MEASURED BEARING AND DISTANCE

JOB NO.: 08074_7H-03-37-14 SECTION DIAGRAM 03-09-09



ABSOLUTE SURVEYING & MAPPING, INC.

829 W. 7TH ST. CORTEZ, CO 81321
 PH. 970.564.0220 / FAX 970.564.1307

CLYDE JAY KING LS NO. 33190

FIGURE #1

LOCATION LAYOUT FOR

BLACK-STATE 7H-03-37-14

COMPANY: BLACK RESOURCES, INC. LEASE# 93/1025 WELL# BLACK-STATE 7H-03-37-14
SURFACE HOLE LOCATION: 2522 FEET FROM THE NORTH LINE AND 2141 FEET FROM THE EAST LINE
SW4 NE4 SEC.3 T.37 N., R.14 W., N.M.P.M. MONTEZUMA COUNTY, COLORADO

NW4 NE4 SEC.10 T.37 N., R.14 W., N.M.P.M. MONTEZUMA COUNTY, COLORADO
ELEVATION AT STAKE: 7892' NAVD

SCALE 1" = 60'

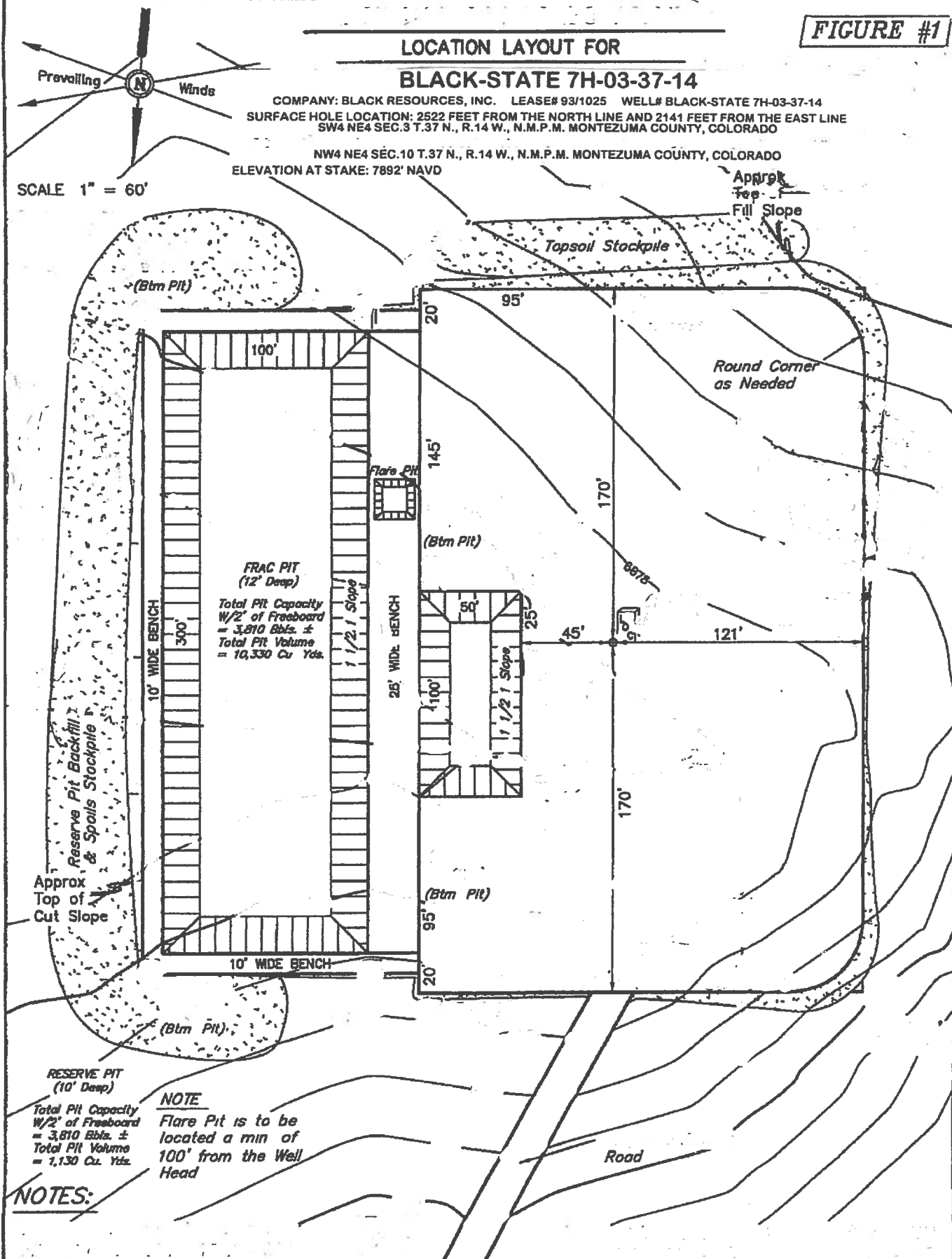


FIGURE #2

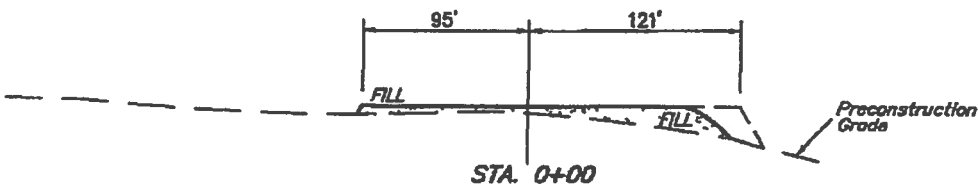
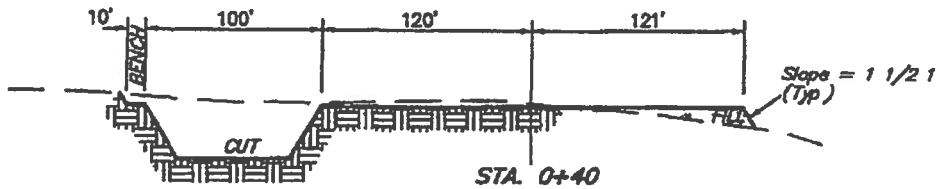
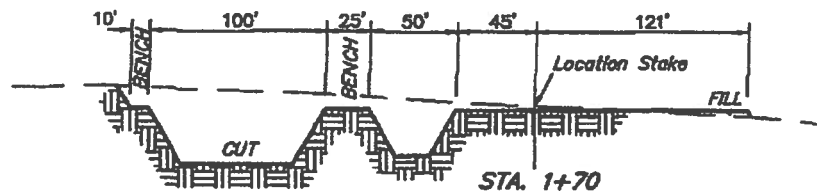
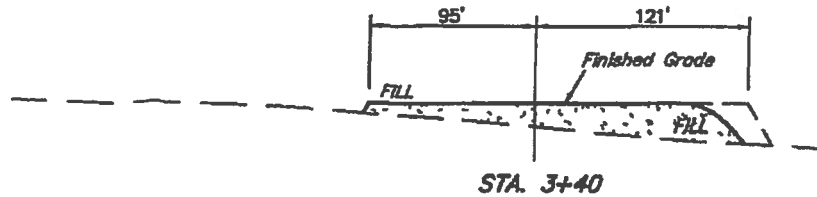
**TYPICAL CROSS SECTIONS FOR
BLACK-STATE 7H-03-37-14**

COMPANY: BLACK RESOURCES, INC. LEASE# 93/1025 WELL# BLACK-STATE 7H-03-37-14
SURFACE HOLE LOCATION: 2522 FEET FROM THE NORTH LINE AND 2141 FEET FROM THE EAST LINE
SW4 NE4 SEC.3 T.37 N., R.14 W., N.M.P.M. MONTEZUMA COUNTY, COLORADO
NW4 NE4 SEC.10 T.37 N., R.14 W., N.M.P.M. MONTEZUMA COUNTY, COLORADO
ELEVATION AT STAKE: 7892' NAVD

1" = 40'

X-Section
Scale

1" = 100'



APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = $\pm 2,827$ ACRES
ACCESS ROAD DISTURBANCE = $\pm 0,364$ ACRES
TOTAL = $\pm 3,191$ ACRES

* NOTE
FILL QUANTITY INCLUDES
5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT
(6") Topsoil Stripping = 2,380 Cu Yds.
Remaining Location = 16,060 Cu Yds.
TOTAL CUT = 18,440 CU.YDS.
FILL = 6,010 CU.YDS.

EXCESS MATERIAL = 12,430 Cu Yds
Topsoil & Pit Backfill (1/2 Pit Vol) = 8,110 Cu Yds
EXCESS UNBALANCE (After Rehabilitation) = 4,320 Cu. Yds.

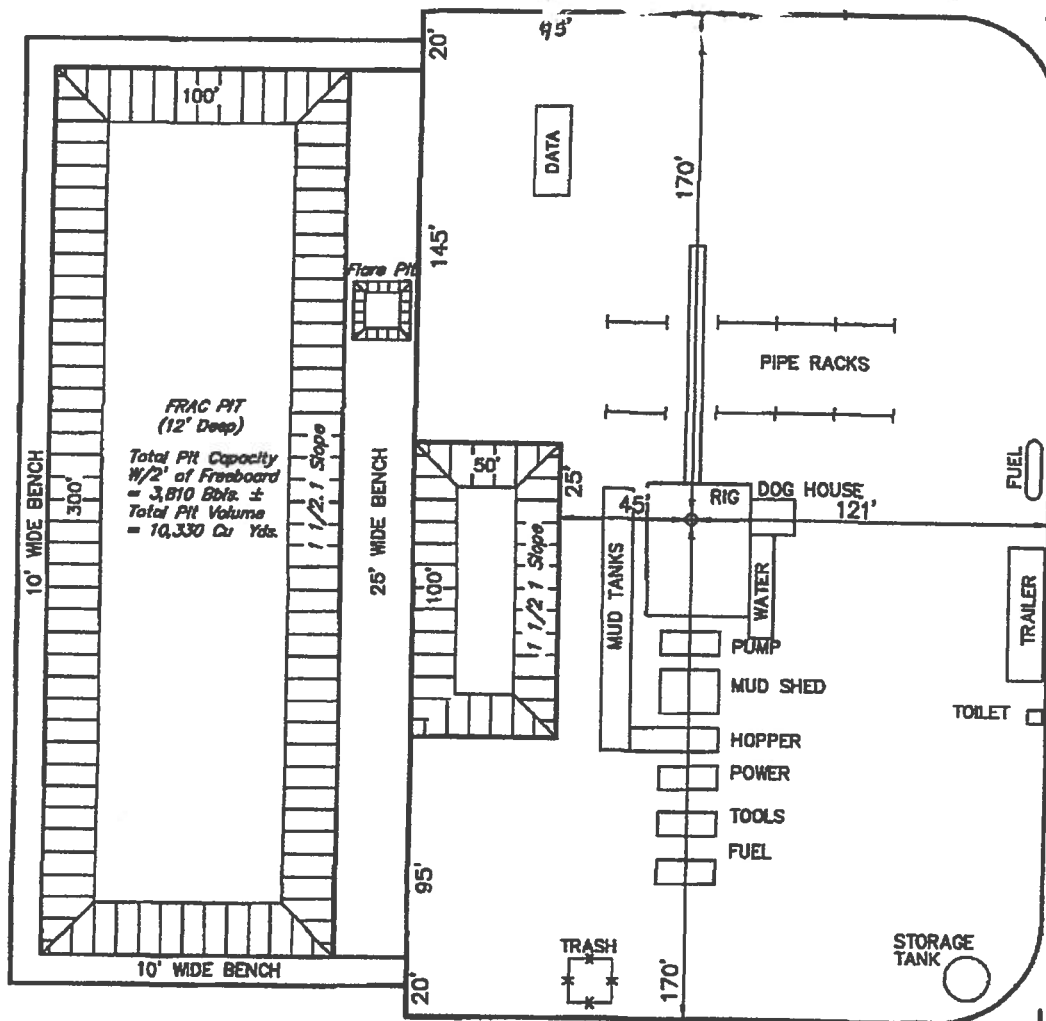
FIGURE #3

TYPICAL RIG LAYOUT FOR

BLACK-STATE 7H-03-37-14

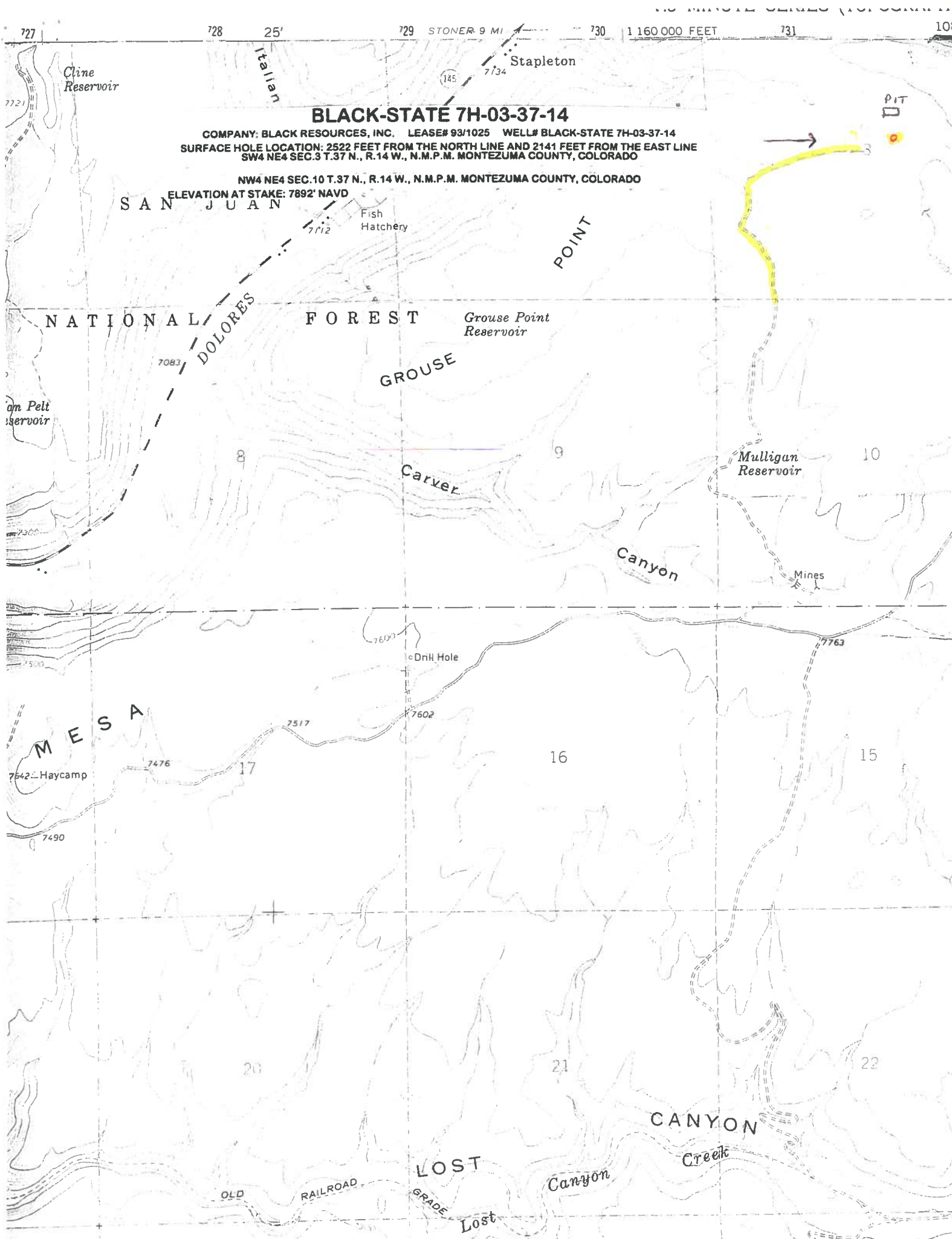
COMPANY: BLACK RESOURCES, INC. LEASE# 93/1025 WELLS# BLACK-STATE 7H-03-37-14
SURFACE HOLE LOCATION: 2522 FEET FROM THE NORTH LINE AND 2141 FEET FROM THE EAST LINE
SW4 NE4 SEC.3 T.37 N., R.14 W., N.M.P.M. MONTEZUMA COUNTY, COLORADO
NW4 NE4 SEC.10 T.37 N., R.14 W., N.M.P.M. MONTEZUMA COUNTY, COLORADO
ELEVATION AT STAKE: 7892' NAVD

SCALE 1" = 60'



PIT DESIGN AND EVAPORATION CALCULATIONS

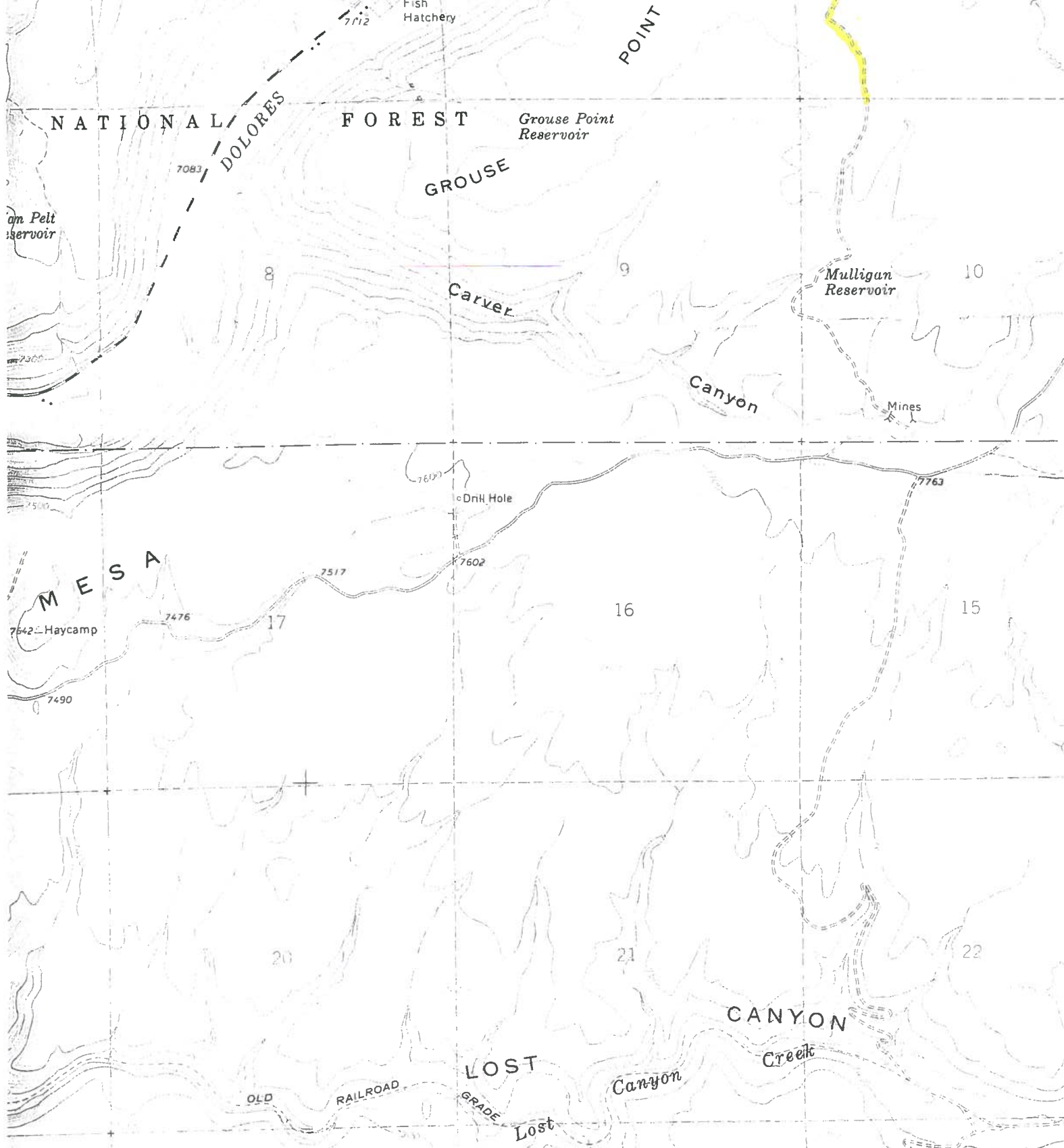
Pit Type	L x W x D = ft ³ x 7.48052 = gal/42	Bbls	Surf. sq. ft. x 0.00015178 = Evap. bbls/day
Prod (Frac)	300' x 100' x 10' = 300,000	2,244,156/53,432	30,000
Drilling	100 x 50' x 10' = 50,000	374,026/ 8,905	5,000
			45.5
			8



BLACK-STATE 7H-03-37-14

COMPANY: BLACK RESOURCES, INC. LEASE# 93/1025 WELL# BLACK-STATE 7H-03-37-14
SURFACE HOLE LOCATION: 2522 FEET FROM THE NORTH LINE AND 2141 FEET FROM THE EAST LINE
SW4 NE4 SEC.3 T.37 N., R.14 W., N.M.P.M. MONTEZUMA COUNTY, COLORADO

NW4 NE4 SEC.10 T.37 N., R.14 W., N.M.P.M. MONTEZUMA COUNTY, COLORADO
ELEVATION AT STAKE: 7892' NAVD



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

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 is from United States Natural Resources Conservation Services (USNRCS).

Complete the Attachment Checklist

1. OGCC Operator Number: 8725	4. Contact Name and Telephone: Bill Black	<table border="1"> <thead> <tr> <th></th> <th>Operator</th> <th>OGCC</th> </tr> </thead> <tbody> <tr> <td>Drill site and access photographs</td> <td></td> <td></td> </tr> <tr> <td>CDE Section 404 documentation</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Operator	OGCC	Drill site and access photographs			CDE Section 404 documentation								
	Operator		OGCC														
Drill site and access photographs																	
CDE Section 404 documentation																	
2. Name of Operator: Black Resources, Inc.	No: (817) 573-8444																
3. Address: 320 Mustang Trail	Fax: (817) 579-1144																
City: Granbury State: TX Zip: 76049																	
5. Well Name and No.: Black-State 7H-3-37-14	6. County: Montezuma																
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWNE 3 - 37N - 14W N.M.P.M.																	

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: Haycamp Soil Complex/Series No: 552

Soils Series Name: Burnsom loam 1-15% slopes Horizon thickness (in inches): A: _____; B: _____; C: _____

Soils Series Name: _____ Horizon thickness (in inches): A: _____; B: _____; C: _____

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: 9/17/2008

List individual species: Western Wheatgrass, Arizona Fescue, Mountain Brome

13. Check one predominant plant community for the drill site:

☐ Disturbed Grassland (Cactus, Yucca, Cheatgrass, Rye, Thistle)

☒ Grassland (Bluestem, Grama, Wheatgrass, Buffalograss, Fescue, Oatgrass, Brome).

☐ Shrub and Brush Land (Mahogany, Oak, Sage, Serviceberry, Chokecherry)

☐ Plains Deciduous Riparian (Cottonwood, Willow, Aspen, Maple, Poplar, Russian Olive, Tamarisk)

☐ Mountain Conifer Riparian (Spruce, Fir, Ponderosa Pine)

☐ Evergreen Forest Land (Spruce, Fir, Ponderosa Pine, Lodgepole Pine, Juniper, Pinyon)

☐ Aquatic (Bullrush, Sedges, Cattail, Arrowhead)

☐ Tundra (Alpine, Willow, Currant, Raspberry)

☐ Other (describe): _____

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

Comments:

Item 14 on file

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: William D. Black

Signed: William D. Black Title: President Date: 3/11/2009

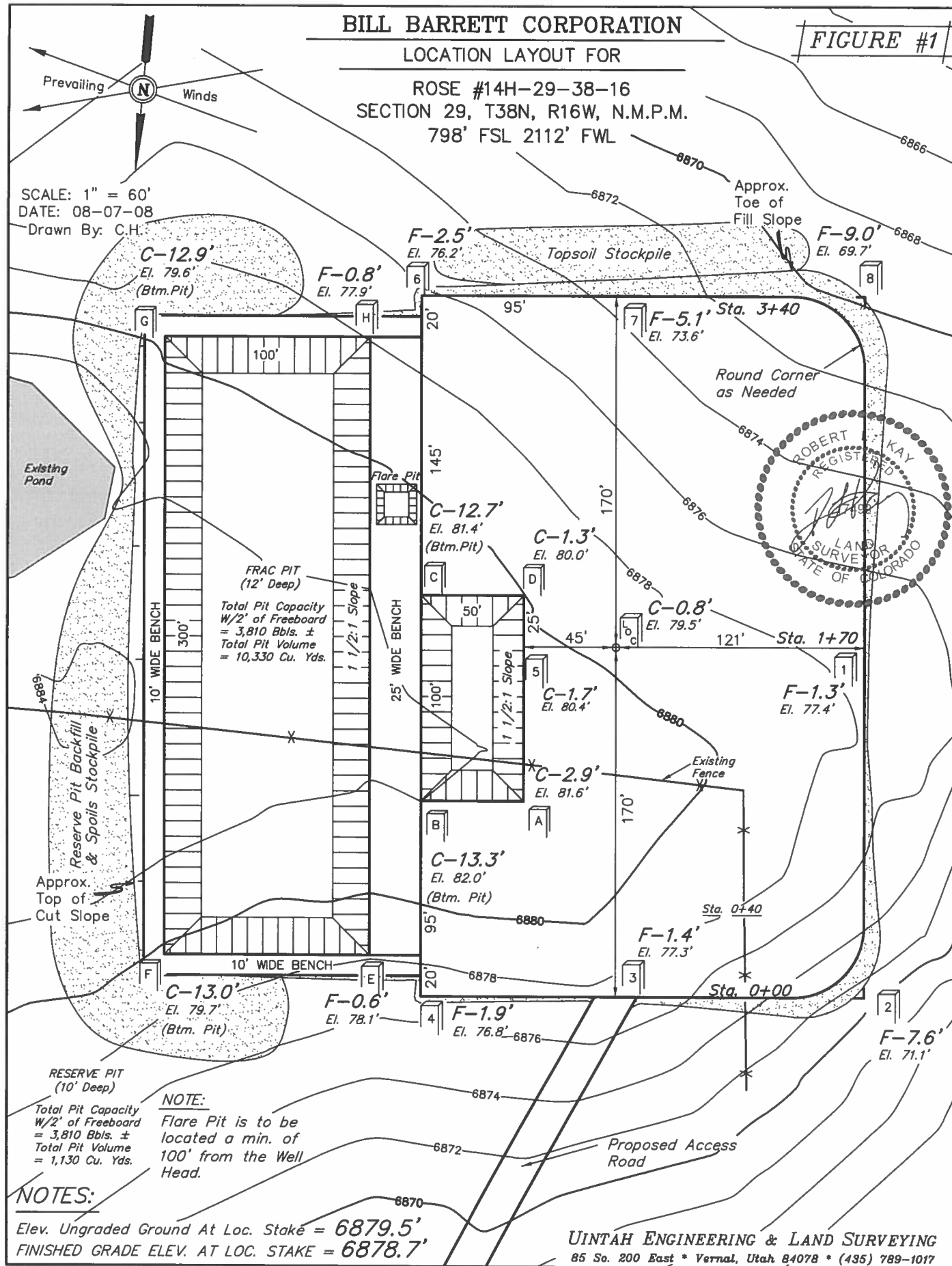
BILL BARRETT CORPORATION

LOCATION LAYOUT FOR

ROSE #14H-29-38-16
SECTION 29, T38N, R16W, N.M.P.M.
798' FSL 2112' FWL

FIGURE #1

SCALE: 1" = 60'
DATE: 08-07-08
Drawn By: C.H.



FRAC PIT
(12' Deep)
Total Pit Capacity
W/2' of Freeboard
= 3,810 Bbbs. ±
Total Pit Volume
= 10,330 Cu. Yds.

RESERVE PIT
(10' Deep)
Total Pit Capacity
W/2' of Freeboard
= 3,810 Bbbs. ±
Total Pit Volume
= 1,130 Cu. Yds.

NOTE:

Flare Pit is to be
located a min. of
100' from the Well
Head.

NOTES:

Elev. Ungraded Ground At Loc. Stake = 6879.5'
FINISHED GRADE ELEV. AT LOC. STAKE = 6878.7'

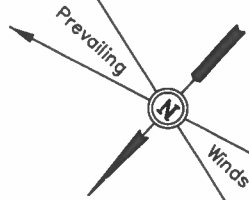
UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

BILL BARRETT CORPORATION

LOCATION LAYOUT FOR

OLIVER #13H-21-38-16
SECTION 21, T38N, R16W, N.M.P.M.
606' FSL 715' FWL

FIGURE #1



SCALE: 1" = 60'
DATE: 08-05-08
Drawn By: C.H.

Proposed #15H-21 Road

Proposed Access Road F-5.3'
El. 66.7'

C-19.4'
El. 79.4'
(Btm. Pit)

C-3.5'
El. 75.5'

C-2.6'
El. 74.6'

F-1.0' Sta. 3+40
El. 71.0'

Round Corner
as Needed



FRAC PIT
(12' Deep)
Total Pit Capacity
W/2' of Freeboard
= 3,810 Bbls. ±
Total Pit Volume
= 10,330 Cu. Yds.

Reserve Pit Backfill
& Spoils Stockpile

10' WIDE BENCH

300'

7080'

7078'

7076'

1 1/2:1 Slope

25' WIDE BENCH

145'

Flare Pit

C-13.8'
El. 75.8'
(Btm. Pit)

50'

1 1/2:1 Slope

25'

C-2.0'
El. 74.0'

45'

C-2.3'
El. 74.3'

121'

C-0.7'
El. 72.7'

Sta. 1+70

F-3.8'
El. 68.2'

Topsoil Stockpile

170'

C-2.2'
El. 74.2'

170'

C-14.4'
El. 76.4'
(Btm. Pit)

95'

10' WIDE BENCH

C-21.4'
El. 81.4'
(Btm. Pit)

C-5.0'
El. 77.0'

C-3.6'
El. 75.6'

7076'

7074'

7072'

7070'

7068'

7066'

7064'

RESERVE PIT
(10' Deep)

Total Pit Capacity
W/2' of Freeboard
= 3,810 Bbls. ±
Total Pit Volume
= 1,130 Cu. Yds.

NOTE:

Flare Pit is to be
located a min. of
100' from the Well
Head.

NOTES:

Elev. Ungraded Ground At Loc. Stake = 7072.7'
FINISHED GRADE ELEV. AT LOC. STAKE = 7072.0'

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1" = 40'
X-Section
Scale
1" = 100'

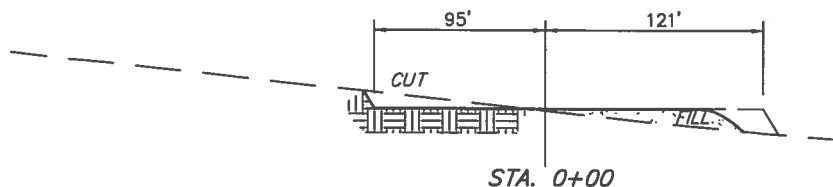
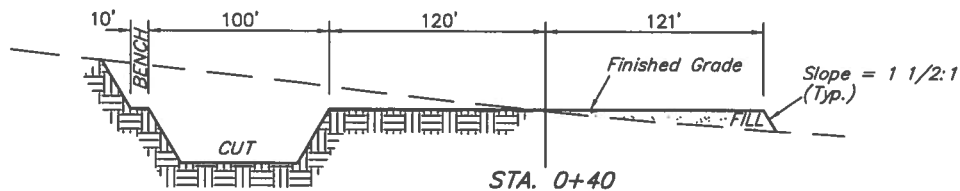
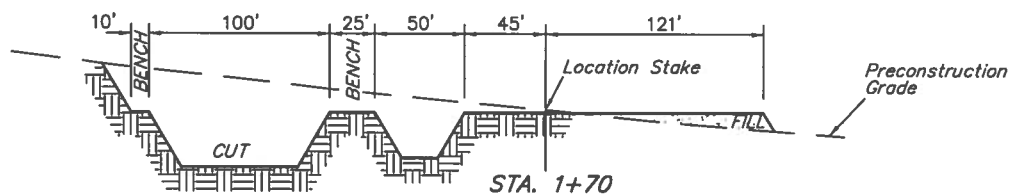
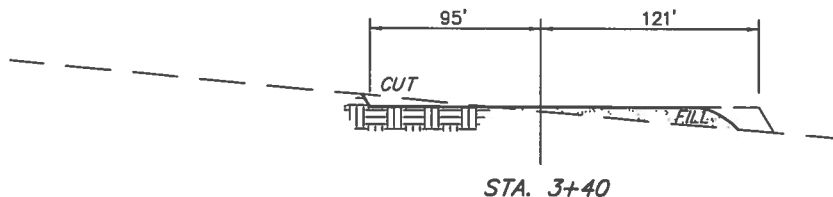
DATE: 08-05-08
Drawn By: C.H.

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TYPICAL CROSS SECTIONS FOR

OLIVER #13H-21-38-16
SECTION 21, T38N, R16W, N.M.P.M.
606' FSL 715' FWL

FIGURE #2



NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ± 2.924 ACRES
ACCESS ROAD DISTURBANCE = ± 0.727 ACRES
TOTAL = ± 3.651 ACRES

* NOTE:

FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT
(6") Topsoil Stripping = 2,460 Cu. Yds.
Remaining Location = 24,230 Cu. Yds.
TOTAL CUT = 26,690 CU.YDS.
FILL = 4,670 CU.YDS.

EXCESS MATERIAL = 22,020 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.) = 8,190 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation) = 13,830 Cu. Yds.

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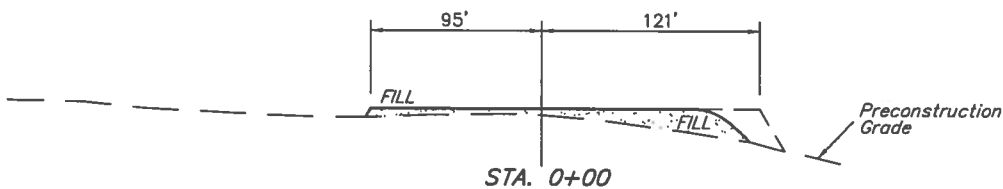
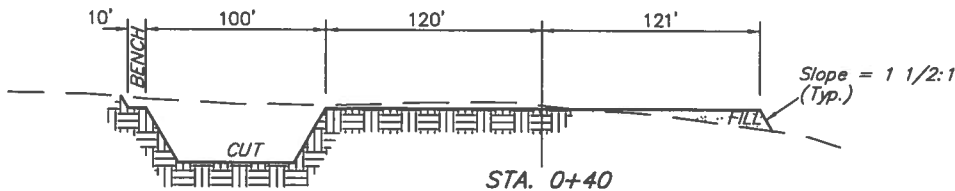
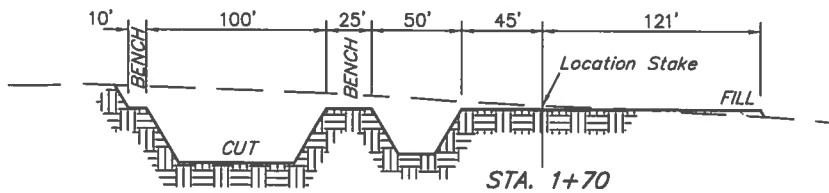
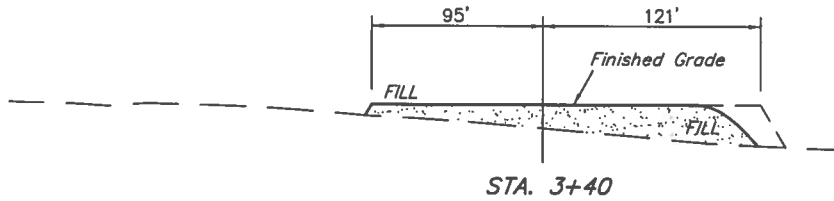
TYPICAL CROSS SECTIONS FOR

ROSE #14H-29-38-16
SECTION 29, T38N, R16W, N.M.P.M.
798' FSL 2112' FWL

FIGURE #2

1" = 40'
X-Section
Scale
1" = 100'

DATE: 08-07-08
Drawn By: C.H.



APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ±2.827 ACRES
ACCESS ROAD DISTURBANCE = ±0.364 ACRES
TOTAL = ±3.191 ACRES

* NOTE:
FILL QUANTITY INCLUDES
5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT
(6") Topsoil Stripping = 2,380 Cu. Yds.
Remaining Location = 16,060 Cu. Yds.
TOTAL CUT = 18,440 CU.YDS.
FILL = 6,010 CU.YDS.

EXCESS MATERIAL = 12,430 Cu. Yds.
Topsoil & Pit Backfill = 8,110 Cu. Yds.
(1/2 Pit Vol.)
EXCESS UNBALANCE = 4,320 Cu. Yds.
(After Rehabilitation)

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