

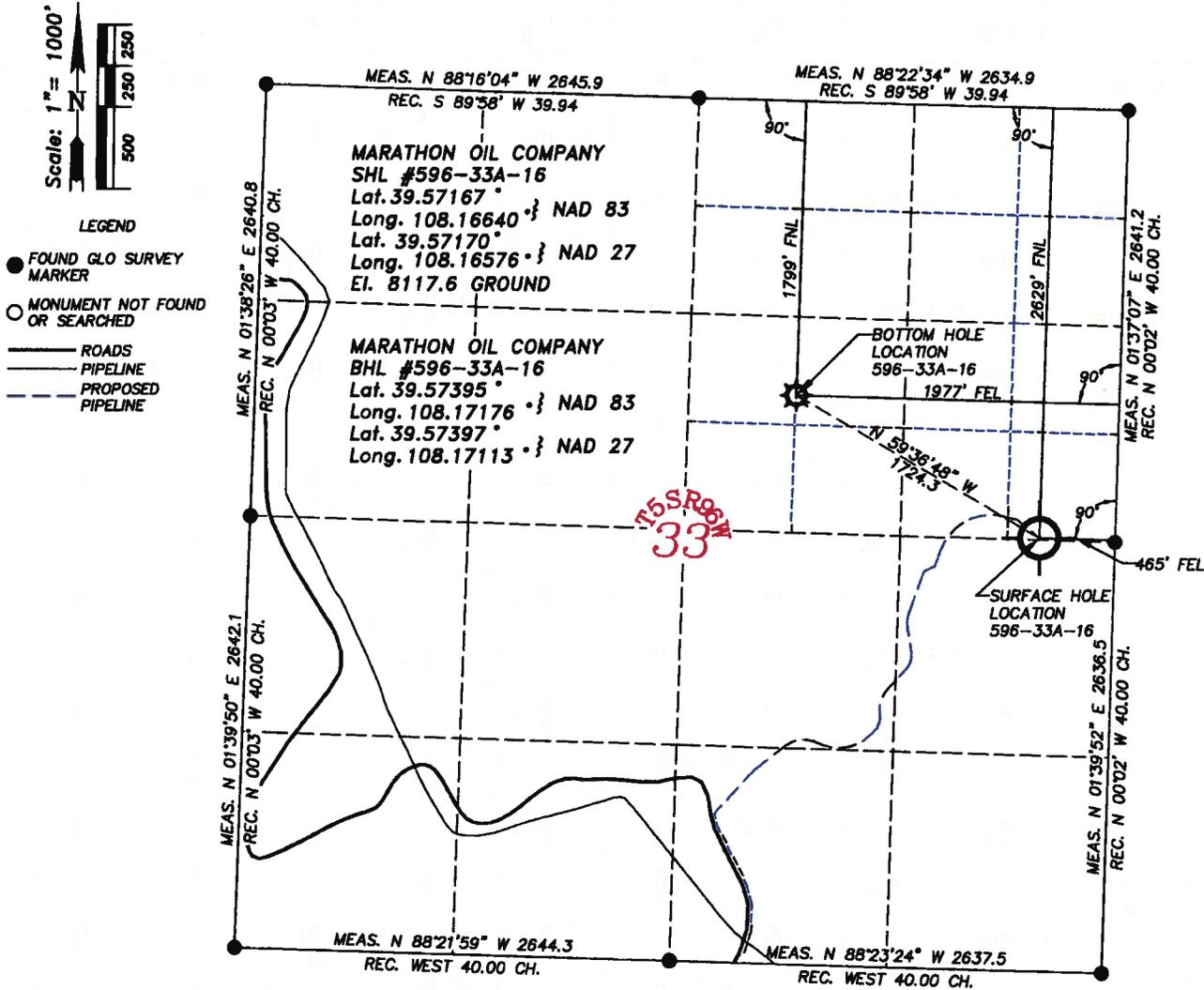
**WILLIAM H. SMITH & ASSOCIATES P.C.  
SURVEYING CONSULTANTS**

P.O. BOX 820  
GREEN RIVER, WYOMING 82935

T 5 S R 96 W

550 EAST 2ND NORTH  
PH. 307-875-3638  
FAX. 307-875-3640

**PLAT FOR SURFACE & BOTTOM HOLE LOCATION**



I, William H. Dolinar of Green River, Wyoming hereby certify that in accordance with a request from Frank Krugh for Marathon Oil Company, 5555 San Felipe, Houston, TX 77056. I and or personnel under my direction made a survey on the 9th day of September 2009, for the Surface Hole Location and Elevation of Marathon Oil Company, Well #596-33A-16 being located within the SE/4SE/4NE/4 of Section 33, and the Bottom Hole Location being located within the N/2SW/4NE/4 of Section 33, T 5 S, R 96 W, of the 6th Principal Meridian, Garfield County, State of Colorado, as shown on the above Section Map. Surface Hole Elevation of ungraded ground = 8117.6 feet.  
 Note: Basis of bearings are grid bearings based from GPS observations.  
 Horizontal Datum based on Colorado State Plane Coordinate System Central Zone NAD 83.  
 Vertical Datum based on NAVD 88 NGS Triangulation Station SHALE.  
 NOTE: Record bearings as shown are based on the General Land Office survey, as approved on April 10, 1919.



JOB NO. 26099  
 09/01/2009 CED  
 PAD 596-33A/PAD 596-33A PLATS.dwg

LEICA GPS GDOP OF 2.4 ON 09/01/2009  
 IMPROVEMENTS: NONE  
 SURFACE USE: GRADING: SCRUB OAK  
 AND NATURAL GROUND

596-33A-16  
 SHEET 1 OF 1

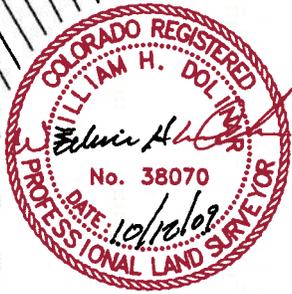
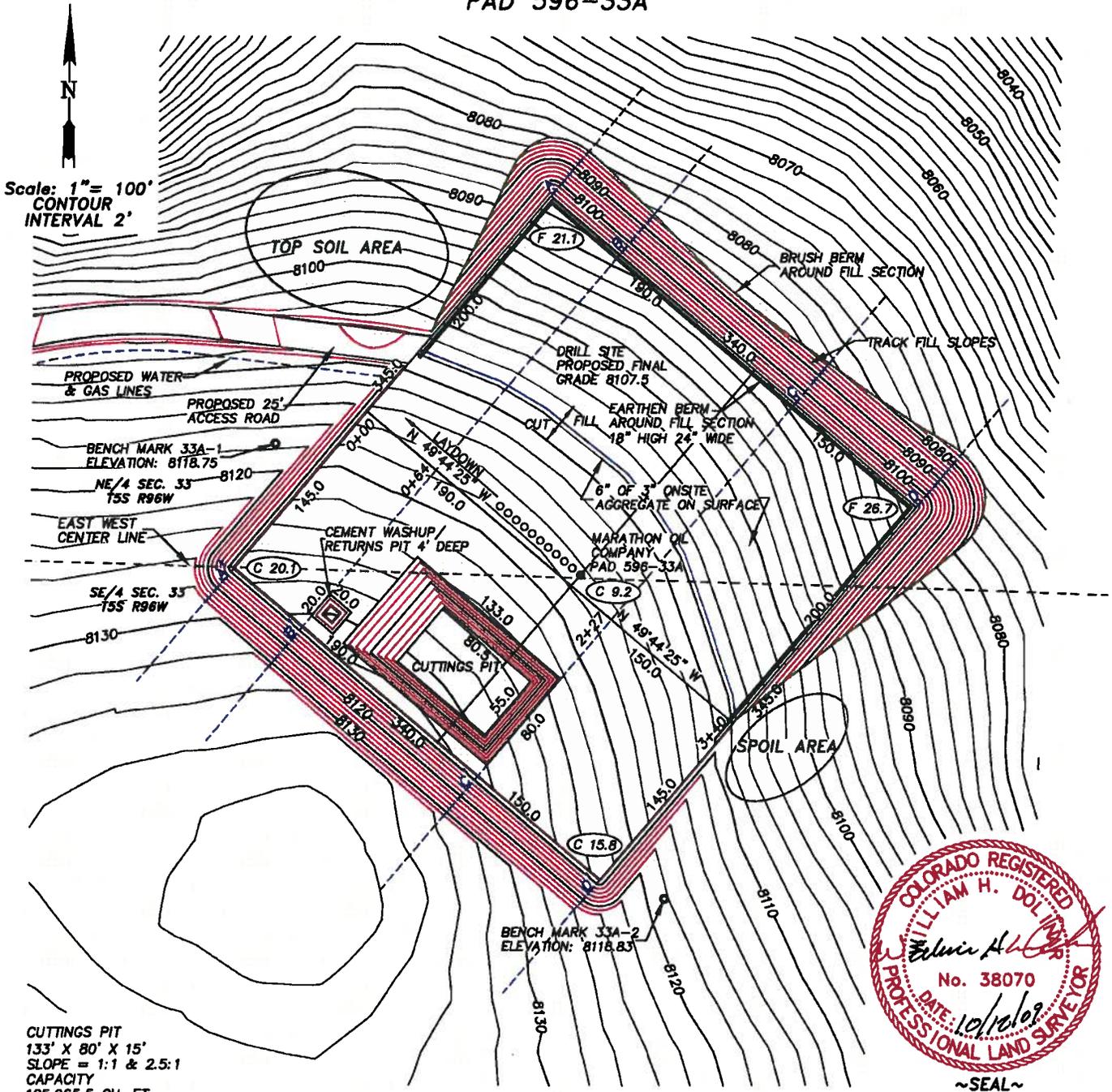
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WILLIAM H. SMITH & ASSOCIATES P.C.  
 SURVEYING CONSULTANTS  
 MARATHON OIL COMPANY

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PAD 596-33A



**CUTTINGS PIT**  
 133' X 80' X 15'  
 SLOPE = 1:1 & 2.5:1  
 CAPACITY  
 105,965.5 CU. FT.  
 3,924.7 CU. YDS.

**CEMENT WASHUP/RETURNS PIT**  
 20' X 20' X 4'  
 SLOPE = 1.5:1  
 CAPACITY  
 148 BBLs FULL  
 44 BBLs WORKING CAPACITY  
 WITH 2' FREE BOARD

**JOB NO. 26099**  
 10/05/2009 CED  
 PAD596-33A/PAD596-33A.DWG

**CUT/FILL SLOPES: 1.5:1**  
**QUANTITIES:**  
 TOTAL CUT = 47,822 BANK CUBIC YARDS  
 TOTAL FILL = 33,452 BANK CUBIC YARDS  
 TOPSOIL AT 20 INCHES OF DEPTH = 9,979 BANK CUBIC YARDS  
 SPOIL = 4,391 BANK CUBIC YARDS  
 DISTURBED AREA = 158,494 SQ. FT. OR 3.64 ACRES

**NOTES:**  
 1. ALL AVAILABLE TOPSOIL WITHIN DISTURBED AREA TO BE STOCKPILED FOR FUTURE RECLAMATION.  
 2. SIX INCHES OF 3" ONSITE AGGREGATE TO BE PLACED ON PAD SURFACE.

**PREPARED FOR:**  
 MARATHON OIL COMPANY  
 P.O. Box 3128  
 Houston, TX 77253  
 5555 San Felipe  
 Houston, TX 77056

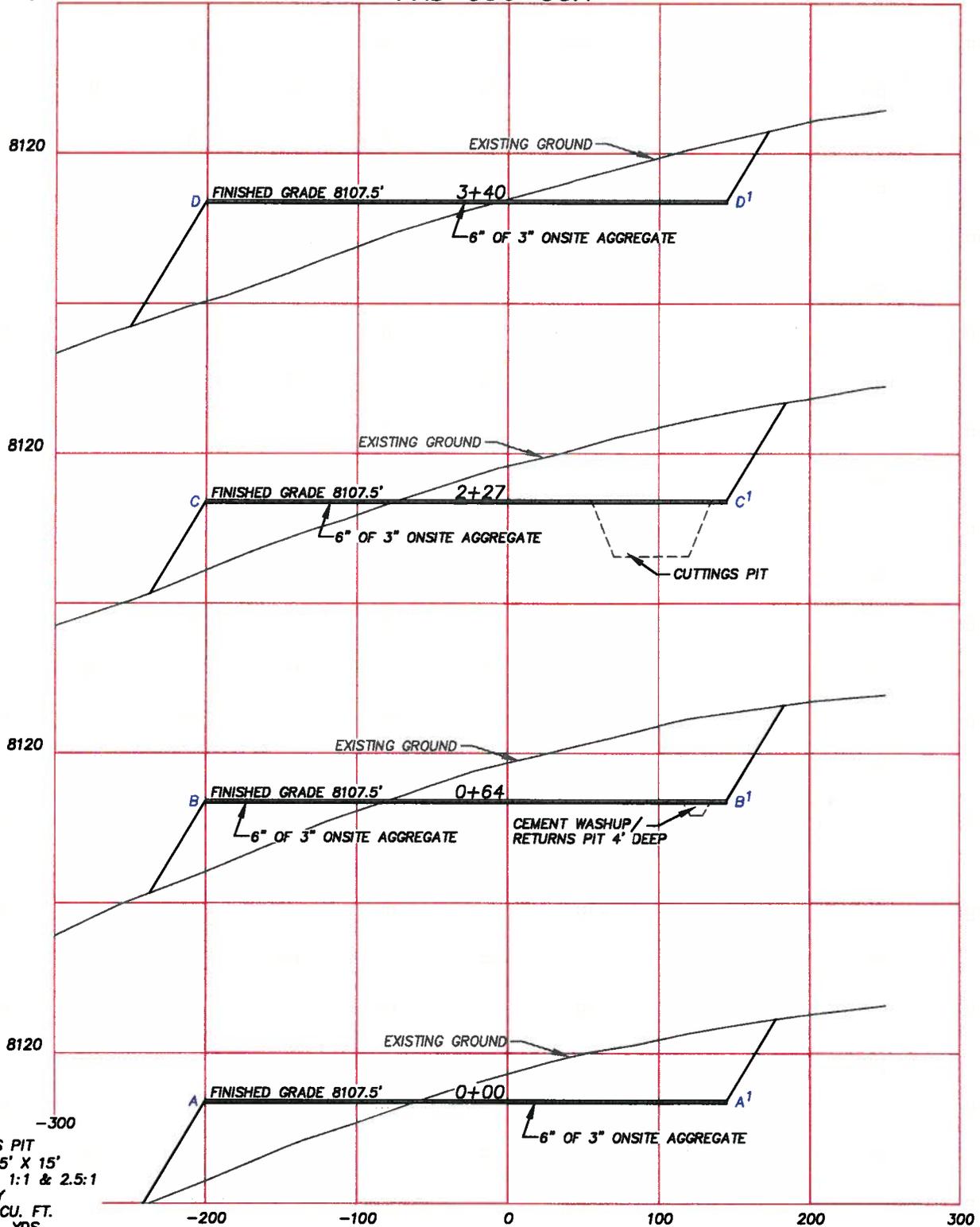
**LOCATION:**  
 PAD 596-33A  
 WITHIN THE E/2 SECTION 33,  
 T 5 S, R 96 W, 8TH PM,  
 GARFIELD COUNTY, COLORADO  
 SHEET 2 OF 16

~SEAL~

**WILLIAM H. SMITH & ASSOCIATES P.C.**  
**SURVEYING CONSULTANTS**  
**MARATHON OIL COMPANY**  
**PAD 596-33A**

P.O. BOX 820  
 GREEN RIVER, WYOMING 82935

550 EAST 2ND NORTH  
 PH. 307-875-3638  
 FAX. 307-875-3640



**CUTTINGS PIT**  
 133' X 85' X 15'  
 SLOPE = 1:1 & 2.5:1  
 CAPACITY  
 196,694 CU. FT.  
 7285 CU. YDS.

**CEMENT WASHUP/RETURNS PIT**  
 20' X 20' X 4'  
 SLOPE = 1.5:1  
 CAPACITY  
 148 BBLs FULL  
 44 BBLs WORKING CAPACITY  
 WITH 2' FREE BOARD

**JOB NO. 26099**  
**10/05/2009 CED**  
**PAD596-33A/PAD596-33A.DWG**

**HORIZONTAL SCALE: 1"=100 FEET**  
**VERTICAL SCALE: 1"=40.00 FEET**

**CUT/FILL SLOPES: 1.5:1**  
**QUANTITIES:**  
 TOTAL CUT = 47,822 BANK CUBIC YARDS  
 TOTAL FILL = 33,452 BANK CUBIC YARDS  
 TOPSOIL AT 20 INCHES OF DEPTH = 9,979 BANK CUBIC YARDS  
 SPOIL = 4,391 BANK CUBIC YARDS  
 DISTURBED AREA = 158,494 SQ. FT. OR 3.64 ACRES

**NOTES: ALL AVAILABLE TOPSOIL WITHIN DISTURBED AREA TO BE STOCKPILED FOR FUTURE RECLAMATION.**

**PREPARED FOR:**  
**MARATHON OIL COMPANY**  
 P.O. Box 3128  
 Houston, TX 77253  
 5555 San Felipe  
 Houston, TX 77056

**LOCATION:**  
 PAD 596-33A  
 WITHIN THE E/2 SECTION 33,  
 T 5 S, R 96 W, 6TH PM.  
 GARFIELD COUNTY, COLORADO  
 SHEET 3 OF 16

WILLIAM H. SMITH & ASSOCIATES P.C.  
SURVEYING CONSULTANTS  
MARATHON OIL COMPANY

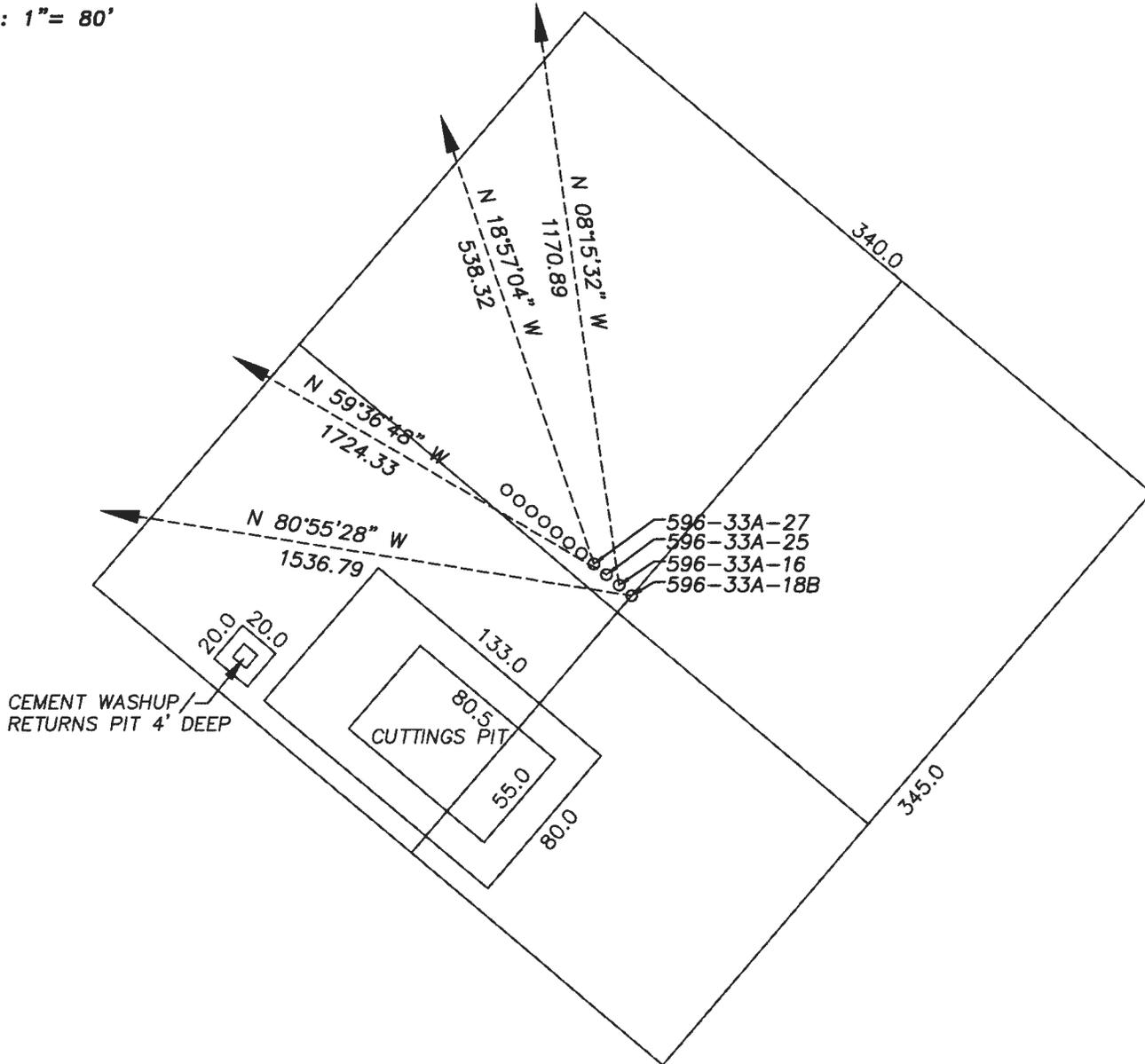
P.O. BOX 820  
GREEN RIVER, WYOMING 82935

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PAD 596-33A DIRECTION LAYOUT



Scale: 1" = 80'



PREPARED FOR:  
MARATHON OIL COMPANY  
P.O. Box 3128  
Houston, TX 77253  
5555 San Felipe  
Houston, TX 77056

LOCATION:  
PAD 596-33A  
WITHIN THE E/2 SECTION 33,  
T5S, R96W, 6TH PM.  
GARFIELD COUNTY, COLORADO  
SHEET 3 OF 4

JOB NO. 26099  
06/09/2010 CED  
PAD596-33A/PAD596-33A DRILL DIRECTION.DWG

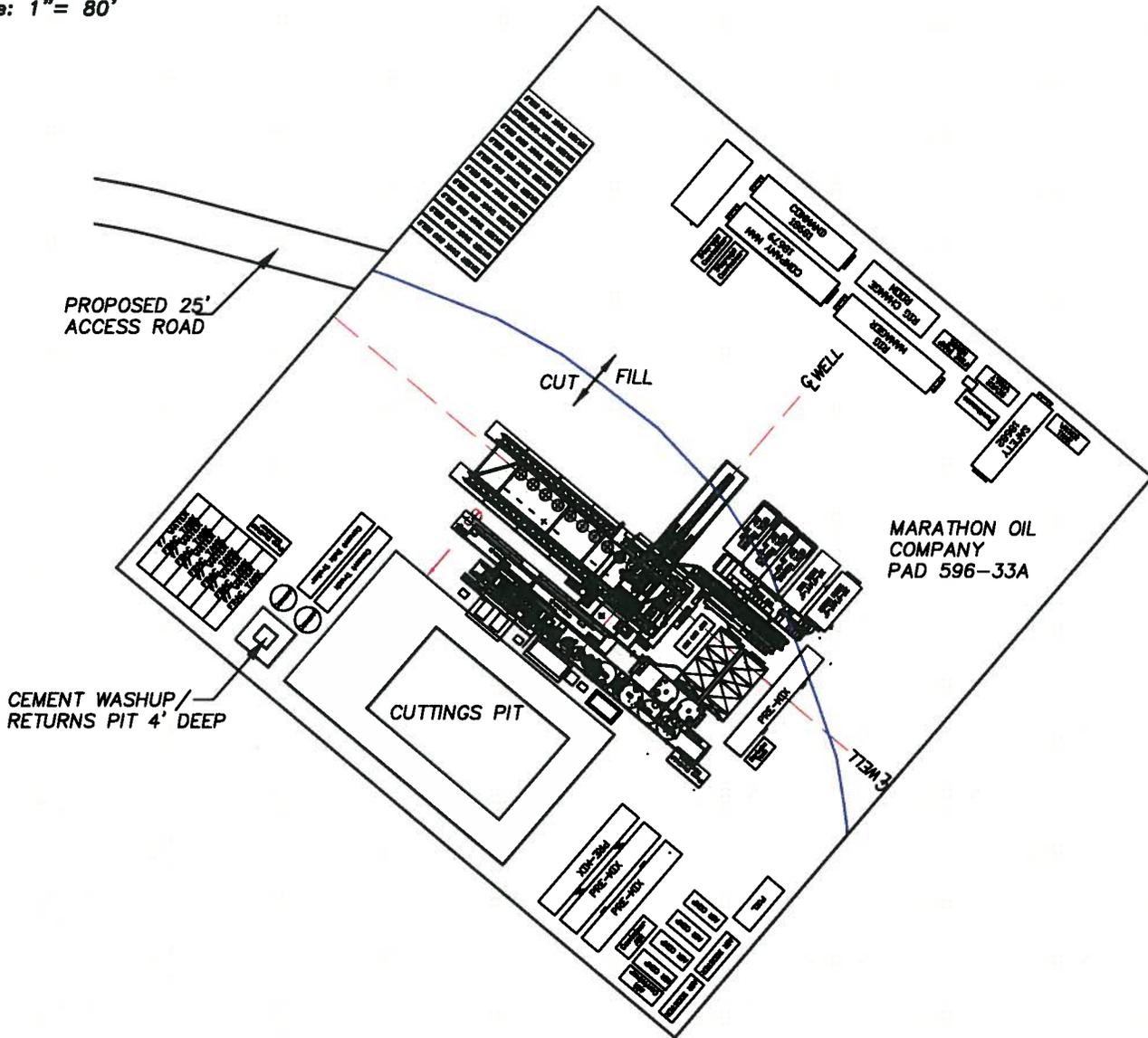
WILLIAM H. SMITH & ASSOCIATES P.C.  
SURVEYING CONSULTANTS  
MARATHON OIL COMPANY  
PAD 596-33A DRILLING FACILITY LAYOUT

P.O. BOX 820  
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Scale: 1" = 80'



JOB NO. 26099  
10/05/2009 CED  
PAD596-33A/04-596-33A FACILITIES CHEV.DWG

PREPARED FOR:  
MARATHON OIL COMPANY  
P.O. Box 3128  
Houston, TX 77253  
5555 San Felipe  
Houston, TX 77056

LOCATION:  
PAD 596-33A  
WITHIN THE E/2 SECTION 33,  
T 5 S, R 96 W, 6TH PM.  
GARFIELD COUNTY, COLORADO  
SHEET 9 OF 16