

SPRAYFIELD

CRAIG

CME

...

Forestry Suppliers, Inc.

1-800-647-5368

#49354 Level Book

09/04 -
W18634
Osgood #1

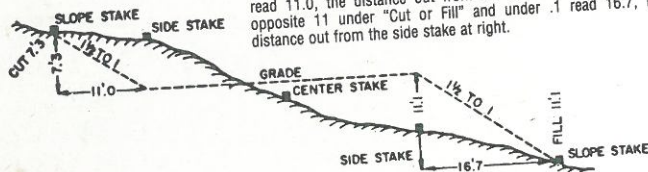
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DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 1½ to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



Cut or Fill	Distance out from Side or Shoulder Stake										Cut or Fill
	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40

SPRAYFIELD GATE COMBS

1097

Atlantic drilling Corp
800 752 9416

Wed Jan 12 8.37
Thu Jan 21 10.86

\$303.50

Bill

229 872 8129

The paper in this book is made of 50% high grade rag stock with a WATER RESISTING surface sizing.

[illegible]

Osgood 1 Shallow GPS
reading: Average 77.5

N 30° 20.112 6.6"
W 84° 12.035 2.1"
entered as way point #10

OSgood #1 deep well
19.0 + Average
N 30° 20.110'
W 84 12.038'
* entered as wingpoint #11

W 18634

in FGS Database

Minimum pressure requirement
to start air lift in kPa =

$$\left(\begin{array}{l} \text{Depth of} \\ \text{air line} \\ \text{(m)} \end{array} - \begin{array}{l} \text{standing} \\ \text{water} \\ \text{level} \\ \text{(m)} \end{array} \right) \times 9.8$$

$$1 \text{ psi} = 6.87 \text{ kPa}$$

$$200 \text{ psi} = 1374 \text{ kPa}$$

$\therefore \sim 400' \text{ of head}$

$$110 \text{ psi} = 756 \text{ kPa} \quad \therefore \sim 225' \text{ of head}$$

NW WELL
AAA2356

$30^{\circ}20'44.7''$
 $84^{\circ}12'8.1''$

9-22-04

CB, KC, HALDAVIS

CHECK OUT SITES.

HYDRANT - CORNER OF WOODVILLE HWY
+ RHODES CEMETARY RD.

STUMP / SAWDUST

$30^{\circ}19.110$

$84^{\circ}12.100$

$30^{\circ}20.08'$

$84^{\circ}12.19'$

BEARS ARE NOT INTERFERING TO POS.
BACK TO OFFICE TO PLOT POINTS.

9-23-04

CB, KC, HD

a. ② HUNT CAMP $30^{\circ}20'5.3''$
 $84^{\circ}12'9.4''$

GATE OF RHODES CEMETARY $30^{\circ}19'57.1''$
 $84^{\circ}13'22.5''$

Da. RW/JS HUNT $30^{\circ}19'59.3''$
 $84^{\circ}13'1.7''$

① $30^{\circ}20'13.8''$
 $84^{\circ}13'10.1''$

③ $30^{\circ} 19' 59.5''$
 $84^{\circ} 10' 42.3''$

⑥ $30^{\circ} 17' 31.6''$
 $84^{\circ} 10' 36.6''$

10-4-04

MEETING USGS/CITY T44.

HUNT CURS -

ACCESS THROUGH SPRAYFIELD - OK

WELL @ SPRAYFIELD CAN BE USED

NITRATE & CHLORIDE TO BE CHECKED

MUD SAMPLE TO CAS.

JOHN MORELL - SAMPLING.

STEAM CLEAR → FROM SITE TO
SITE

SOUTHWEST HYDRAULIC AS POSSIBLE
SOURCE FOR H₂O.

JAMIE SHAIER - CITY -
MEDIA CONTACT.

75' SCN INTERVAL

Hoses

11/29/04

CS, CO

START MOBILIZING EQUIPMENT TO
SPRINGFIELD. MOVING WITH ONE
P/L PERCENT.

11/29/04

CS, CO

LB STEAM CLEAN ONE CS TO
NEWFORD TO FULL ABRASIVE LINO
PRODUCT. ON BLUE PLASTER.
MOBILIZE BLUE PLASTER/AND
MACHINE AND ONE.

REPAIR TOOL

WIRELINE NUTS

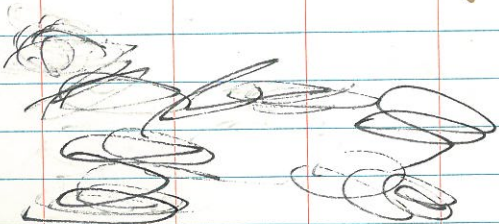
NEED: BUCKETS

HAND PUMP

HAND CURAWER

FAMILY: YBSXS. 2051HF
274479

MUDth TO CERTAIN AMP ENGINES
B.S. 010416FD 110432 0035EI



OS6000 #1

12-7-09

CB, LB, BC

LEAVE W-HOUSE. STOP :
GET 40 W/ H₂O TANK & 725 gal
TANK ON SUPPORT TRUCK GET
SET UP. LOAD H₂O IN ANOTHER
SYSTEM CARB ON CENT. Pump on
MUD SYSTEM LEAKING, FUEL. PULL
CARB W/ CT. CALL TOWER EMT.
: MAKE NEW CARB.

12-8-09

CB, LB, BC

HARD RAIN

Hook up OVERSHOT. POST HOLE
FRIT 2'. LIGHTER AND STAMP
BELOW GROUND SURFACE, #
HAVE TO USE 7/8
STANDARD TO GET THROUGH STAMP

0-2 TAN/OEN FINE SAND & ORGANICS

2-04 NO RECOVERY. SWITCH TO
EXTEND TO STOP.

BOART LONGYEAR:

4-12 RED/GR SANDY CLAY. USED EXTENDED SHOE. NO CIRCULATION - PLUGGED OFF 7' REC. HAD TO BYPASS ALL DOWN HOLE FLOW.

12-17 TAN RED SANDY CLAY. EXTENDED SHOE NO CIRCULATION - PLUGGED OFF 4' REC. HAD TO BYPASS ALL DOWN HOLE FLOW. POSSIBLY STARTED INNER COLL W/ EXTENDED SHOE. BOTTOM OF RUN VERY HARD. LS IN BOTTOM OF SHOES.

17-25 RX - VERY HARD. CHANGE BACK TO RX SHOE. LOST CIRCULATION AT 18.5'

- 17-18.5 GR LS w/ TAN CLAYEY SAND
- 18.5-20 CAVITY
- 20-20.5 GR LS w/ TAN CLAYEY SAND
- 20.5-21 CAVITY
- 21-25 GR SANDY CLAY w/ LS.

PULL NO. DRILL IN 778'
STABILIZER TO 17'. MUDS
PUMP LOSES SECTION 3x. HAD
TO PULL INWARD FROM
MUD NO. 2. RUN OVER H2O
THROUGH IT FOR SECTION 2
PICK BACK UP. SEEMS TO
NOT WANT TO DRAW HEAVY
MUD. PULL STABILIZER, DROP
6" PDC INTO HOLE AND PULL
TO 17'. CORN UP/LOCK UP.

CD TO JONES TRACTOR
TO P/U CABS FOR CENTRIFUGAL
PUMP ON MUD SYSTEM.

$$\begin{array}{r}
 1 \\
 240 \\
 90 \\
 \hline
 22.5 \\
 3 \overline{) 52.5} \\
 \underline{33} \\
 19.5 \\
 \underline{18} \\
 1.5
 \end{array}$$

12-9-04 CD, LB, BC

INSTALL NEW CARB ON CENT.
PUMP. HYD. LINES ON WIRELINE
WINCH MOTOR REVERSED SWAP
LINES SO THAT VALVE OPERATION
MATCHES CONTROL PANEL SIGN.

H₂O LEVEL: 3' BLS

II

25-27 GRN/TAN/CL LCLAY TU
GR FINE LS. CAVITY 265-27
27-28 GR FINE LS TU GR/TAN CLAY
GR CHAN @ ETO 12 RVR.
OCCURRING PRESSURE UP.
PUMP NOT WORKING PROPERLY.
PULL INNER BELL. HOT.
PULL NO. BIT QUART OFF
TEST PUMP NOT WORKING.

TEAM NOT INTO

ORDER NEW PIT : NOT IN
ROAD RUN LOWERS.

12-10-07 REPAIR MOANO. NEED 7
45 REPAIRS

12-12-07 CUTS TO SITE TO ARRIVE.

12-20-07

AB, LA, AC

REMARK MONITOR H₂O LEVEL 16' SLV
RUN IN NQ w/ SURFACE RES BIT
BEGIN CORING. AFTER 1.75 HR
NO PENETRATION. RUN N.R.
BIT WORE 5.5"

TAKE BIT OFF. 1" ORDER
SERIES 2:10.

12-21-07

AB, LB, BC

RUN IN CAMERA. CANNOT SEE
ANYTHING THROUGH BIT. WHEN 5' RUN
UP BIT WEAR STEEL/DIAMOND
TO 10". RUN IN NQ w/
DESIGN NIPPER.

28-37 Rx @ TOP of Run w/ STEEL.
INTO BLUE CLAY. Rx @
BOTTOM of Run.

48-49

50-50.5

2255 PM ✓

-200

37-47 2N/6E GRANT CO. RELINQUISHED

~~48-49~~

40-42 CAVITY

43-46 CAVITY

47-57 62 MODIL/PAK CO. RELINQUISHED

48-49 CAVITY

50-50.5 CAVITY

51-67 62 MODIL CO. TO 62 CROSBY

67-77 62 CROSBY

THE NEXT RUN. HOLD TOGETHER.

HUNG PIPE RUN WITH REL.

WIRELINE DEARS. TWO

PIPE.

A RUN 3" CG TO 77' BLS.

REPAIR WIRELINE.

12-22-84

CA, CO, CR

~~CR~~ CHANGES BIT FROM DEURS
W/OUT NEED TO SERIES 2
INCREAS.

RUN IN NO.

77-87

GR LS TO GR CARB. SAND & CLAY

87-97

NO RECOVER.

HAR CHAIRS SHOWS UP 5' TAKES
H₂O SAMPLE.

BELT CORING ALONG. IN PENT.
RUN NO. BIT RUBBER/H₂O
(CHANGES PORTS)

RUN NO. BACK IN.

97-107

GR FINE GRAIN LS

107-117

GR CLONISTONE 100% REC

117-127

GR CLONISTONE

LAST 8" DOLOSTONE 10.60% ALK

CSG TO 77'

12-23-04

CA, CB, BC

HALL STAIRS (CLSG) STOWED UP ?
TAKES 400 CARPUS.

#27-#37 18W DILATIONS

BOTTOM PIN IN REACTION
CASE BACKING OUT HANGING UP
UPPER ALL IN CASE 36
QUEST. NOW REACTION CASE.

HARRY HOLLAND

3" - 77' 154

142.148.7 - CAUTION

2022

1-4-05 CD, SC

REPLACE RETRACTING CAGE
ON INNER SCL. RUN IN
INNER SCL HAVING PROBLEMS
GETTING TO 237' AUGER
SHOES. TRY AGAIN. 8' OF DIRT
IN HOLES

137-142.7 GR/AN LS TO GR/AN LS
143-143.7 CAUTION.

X BONE FELL OUT OF TRAILER
~ 2:30 pm. LAWN ON RT
KNIFE? TURNED IT.

1-5-05 CB, LE, BC

ADVANCE 3" CG TO 125' BL

147.7-149 OOLITE TO GRANITE
DISTRICT IN KANSAS.

147-150 GRANITE TO CAL. HNO TO
GRANITE

H₂O LEAK DROPS TO 82.6' BL

PORE FLOW, COMET: $\pm$ UP/DOWN.

1-6-05 CB LA BC

$\frac{1}{2}$ 0 LEVEL ¹⁷ BU

HAR DAVIS TO SITE FOR $\frac{1}{2}$ 0
STARS

LA. ADD PACKING : ADJUST
MOTOR

STILL LEAKING OIL RINGS

1 1/4" STREET
 1 1/4" x 1" BUSHINGS
 1" CLOSE NIPPLE
 1" CLOSE NIPPLE
 1 1/4" x 1" BUSHINGS
 1 1/4" STREET
 1 1/4" COUPLING
 1 1/4" x 1" RED. BUSHINGS

2028

1-10-05 CS, US

REPAIR MOYNO. SEEMS TO BE
 WORKING GOOD. PUT FLOW METER
 ON

150-157 200 psi PULLDOWN

FOUNTAINS CANIFY 150-157.

APPROXIMATE FLOW 1/2 GPM

157-158 FOUNTAINS. PULLDOWN OK.

RUN INNER SILL BACK IN
 HALF TIL CO. W. INNER SILL
 COULD NOT GET TO CORNER SILL

157-158 OK MAXIMUM CAPACITY

6" CREAM W. C/DISCUSSION

164-164.5

1-11-05 CB, EH

L. FORTH: SICK

Plan started

2035

165-167 ORK GRN/CLAY LS

167-177 LT GRN/MAY LS 167-169

169-171 OR GRN GRANITIC
DISSOLUTION

171-177 GL GRANITIC MUD-
FIS

177-187 GL GRANITIC

187-197 GL GRANITIC

197-207 OR GRN DOLOMITE/GRANITIC
197-200

200-202 NO REC

202-204 OR GRN GRANITIC

204-207 NO REC

207-208 GL GRANITIC

208-210 CAVITY

210-211.5 OR GRN DOLOMITE (PLUGGED)

211.5-217 OR GRN DOLOMITE GL LS

217-219 GL GRANITIC

219-220.5 CAVITY

220.5-227 GL GRANITIC TO OR GRN GRANITIC
w / DISSOLUTION TO GLAY LS
CLAY AS SEEN AT NEW

1-12-05

CO, Felt

MEET JOHN MURPHY JR. & DAVID
FOR THE SAMPLES

ON 1-11-05 DRILLED TO 246.

NO RECORDS SAMPLE IN
BOTTOM OF CORE 1/2.

DRILL LAST 4' W/O-T 1/2 INCHES
2 INCHES BIT. PER REQ.

2039

1-18-05

CS, CB

PULL 3" CSB. BREAK DASH
BT OFF $5\frac{7}{8}$ " STAMMER.

TABULUS CANN. BREAKS. MECHANISM
ON END OF HYD CYLINDER BROKEN
OFF. TOWED TO TUN. WORKING
TO REPAIR

2042

1-19-05

CS, CB

REPLACE HYD CYLINDER END
OF HYD. HAS BROKEN. TO TUN
HYD. TO REPAIR. BACK TO
SITE, REPLACE HYD. HAS
BEEN MILLING $4\frac{1}{2}$ $5\frac{7}{8}$ "
STAMMER

A MILL TO 53'. OUT OF H_2O
 H_2O RPT. TRANSFER TO H_2O
TRUCK.

1-20-05

CB, CB, KC

pull LOAD H₂O. CONTINUOUS
5 7/8" STABILIZER.

43' - 148'

pull back 5 7/8" STABILIZER
HAD TO HEAT TOOL JOINTS
TRY NOT TO BREAK JOINTS.

BEAT 40' POS.

pull completely out.

CB LEAVE SITE @ 12⁰⁰ PM
FOR DR. NATC

1-24-05 CB, LB, EH

RUN STABILIZER BAR IN
HOUS CONTINUE DRILLING
148-154' STABILIZER
LOCKED UP BREAKING
CMK THREAD X NWT SUB

RUN SUB INTO KELLY BAR
SPUTTING KELLY BAR.

ORDER KELLY BAR FROM
CME

1-25-05 CB, LB.

MET @ DAVE. p/u KELLY
@ CARP BUILDING INTERROOM.
GO TO SITE. CME SEND
DRIVE ROD NOT KELLY CAR.
CALL CME, ASKED KELLY CAR.

DISSEMINE CRACKER KELLY.
PROPOSE TO INSTALL NEW
KELLY 1/26/05. NOTICE LINK
FROM DOUBLE CHAIN ON
TC. ANGLE DRIVE MISSING
BACKSIDE.

~~REPLACE~~ REPLACE 1/2"
LABEL OF MAIN HOSE.

1/6/06

CS, US

p/o KELLY @ CARBON
MAILROOM. TO HOLLEY TO
GET DOUBLE MASTER LINK TO
RT ANGLE DRIVE.

ARRIVE @ SITE, REPAIRS
CHAIN LINK & INSTALL
NEW KELLY.

PULL PIPE. R/L HOLDING
STRAIGHT. HERE TOOL
JOINTS ON WAY OUT.

BIT WORK. RUN OUT OF
OXYGEN.

Kevin - JOR

2061

506-779-8008

506-779-~~80~~ 6129

MAYHEU TR

OD: 2.97 - 3.01

SUPS: 2.381 - 2.401

2/1/05

CB, LB.

CONTINUE PAVING W/
5 7/8" STABILIZER TO 200' DLS.

2/2/05

CS, CB

PUR 5 7/8" STABILIZER
BEGUN PAVING IN 3 3/4

Rain

PULL APART OLD MOUNT

2-3-05

CS, LB

CONTINUE PAVING IN 3 3/4
TO 254 1/2' - PUR 3 3/4
RAN N 2" PUL WELL 50' SCEN.
TO 240'

FIBER PACKED

STAGE GRADED / BRIDGED CAVITIES
TOTAL 40 BAGS PORTLAND
AND 62 BAGS GRAVEL

✓ get another oil-filled
diaphragm pressure
gauge for grouter.

2-17-05 KC, EH -

Found grout at ~133' bws
wash in 24 bags gravel + 5
bags sand to bring bridge cavity
brought top to 129' bws
pump 5 bags portland + 5%
bentonite.

Rig hours 2074

retn when 600pm

Craig + LEE
to grout 131'

3.16.05 BC, JH, EH

Arr. Site @ 11am.

- Bottom @ 20'

Poured 18 bags of gravel.

- raised bottom to 16' ~15' 10"

- pulled out 6" casing.

bottom @ 15' 8"

Mixed cement 5 bags.

Brought up to surface.

Mixed 3 bags of gravel into
cement to make perl.

Mobile Rig hours 1826

John Deere 877.5522

3-18-05 SR + EH

8:30 Start went to lowes
for supplies. Stopped to
get water. Got to site
at 11:00 am. Cleared
vegetation around work area.

TRANFERRED TO MBL DRILL 18

0-15' Hollow Stem AUGERS

0-5' GRAYISH SAND

5-10' REDDISH SAND

10-15' " "

15' SANDY / CLAY

15-20' REDDISH CLAY ~ 21-22' ^{HARD} LEDGE

23' ~~20' 22'~~ SOFT LINE STOP PULLED CROOKED HOLE

PULLED AUGERS PUT IN ~ 23.5'

6" PVC CASING TO ~ 21.5

CLEAN UP SITE - DEPART TO WASH.

RIG HL. 1831

Picked up GENERATOR

@ John Deere

7:10 pm WAF END DAY

404.376. 3599

Butch Babcock

Longyear Stone Mt. office:

800. 241. 9468

Bits

Jeff OR Paul McKella

