

525A

525 A

WS25A

RECORD

C.M. Reed Inspector

El. Capitan Lakeside Pipeline

Section 98-1-B Calif

El. Capitan Dam

525-A

117+50 to 49+50 75
14+00 14+10
11+26 11+34 28+25
19+35 19+50
21+25 21+35
60+50 60+55 60+40 - 60+65
61+20 61+40 61+20 - 61+50
64+55 64+70 64+50 - 64+75
66+25 66+60 66+35 - 66+60
99+75 - 100+50
90+60 - 90+80

2

4-23-36

Class 2 Excavation 1

- 1- Power shovel
- 1- 260' Compressor
- 1- Wagon Drill

Labor

- 2- shovel operator @ 5 Hr each
- 2- Driller ~~James~~ 5
- 2- Laborer ~~asax - Dubois~~ 5
- 1- Powderman ~~Salas~~ 5

7

4-23-36

6³⁰ am
5 pm

3

8th shovel in 8³⁰ am starts sta 230+00 inverts
east. casts north over bank
5 pm End 26+00

4-23-26

Labor

1-Foreman	@	10
1-Foreman	@	10
1-Field Eng	@	10
1-Welder	@	5
1-Carpenter	@	7
2-McMillan ex	@	5
2-Driller	@	5
1-Labarer	@	4
4-...	@	5 ³⁰
1-Flanky	@	(5)

1-60 cat + McMillan
 1-260 camp - 2 JH
 1-Candy Wagon

4-23-26

Tunnel

10³⁰ am. By phone F.D.P. to J.W. I
 notified Watson-Degler-Hudson
 that all thrust pier dowels would
 extend into floor 2'-0" instead of
 3'-6" as given on plans. Notified them
 10⁴⁰ am
 3⁴⁰ pm Talked to Degler and
 Watson about brigs under
 the steel. Told them that they were
 required

Drilling ceiling holes for carrier,
 chipping and recessing and
 mucking at tunnel portal

1 load - $\frac{3}{8}$ load sand
 1 load - steel

Notes - J.W. 10^{am} 12³⁰ pm
 Conper 2 pm
 Dennis 4 pm

6

4-24-36

Class 2 Excavation ✓

Equipment

1- Power shovel
 1-60 Cat 9^{am}

2. Shovel op e 5

1- Oiler - Paarsone 5

4-24-36 6²am 5pm

Class-2 Excavation ✓

7

operations

6²am shovel at 26+00 - casting8^{am} Finish to 25+60 move to 24+7510⁵am move 260' camp andwagon drill to 30+00 ^{FOR CLASS 1} ~~F~~ EXCAV.

5pm shovel 20+75

4-24-36 ✓

Labor

1-Faceman-water	10
1- Degler	10
1-Field Eng	10
1-welder	5
1-Carpenter	5 ^{1/2}
1-	5
1-Memillan	5
1-	2
1-Bulldozer	5
3-Driller	5
1-Powderman	5
2-Laborer	2
3-Laborer	5

1-CoCat-MCM
 1-Co Bulldozer
 1-pump
 1-Candy wagon

In. v. 6⁴⁵ am
 Capter 2 pm

4-24-36 ✓

Tunnel

Drilling ceiling holes for
 carrier-anchor holes, chipping
 and recessing for pier A.
 Water high in sump causes delay
 in cleaning operations

Wed 21 Dec 1936 12³⁰ pm

10

4-24-36

Tunnel ✓

11^{am} 11¹⁵ am Told Degler and Watson
that dowels must be grouted in
48 hours before they can be worked
around
4 pm Gave Watson sketch of revised
plan pier #1

4-24-36

12¹⁵ .57 pm

11

Class 1 Excavation ✓

1- 260' Camp
1- Carriage drill

start 27+60 - west to 28+90

1- Driller

1- Laborer

4²⁰ pm Told Watson that where trench
is loosened below grade, loose
material must be removed and
replaced by suitable - compacted
material - or if loosened material
is suitable, it must be tamped or
puddled to grade

12

4-25-36
Class 2 Excavation6³⁰am 5pm

1- Power shovel

1- Jackhammer

1- 60 Cat Bulldozer fill 9am

1- 260 Comp out 11³⁰am Back 2pm1- JH & Wagon Drill out 11³⁰am6³⁰am sta 20+75.

Drilling 13+15 west

5pm 1975

13

4-25-36

Class 1 Excavation

Sheet 27+60 - 28+90

4.25.36

✓

Labor

1-Foreman-Watson	e 10.10	Each
1- " Degler	e 10.10	"
1-Field Eng - Maurer	e 10.	"
2-Shovel Operator	e 5	"
1-Welder	e 5	"
1-Carpenter	e 8	"
1-Electrician	e 8	"
2-McMillan operator	e 3	"
1-Bulldozer "	e 3	"
2-Oiler	e 5	"
4-Driller	e 5	"
1-Powderman	e 5	"
4-Laborer	e 5	"
1- "	e 2	"
2- "	e 8	"
1-Flunkey	e 5	"

Tunnel

✓

(Casper)
6²⁰ am. Foreman - 1 Carpenter 1 Driller
cleaning up and cutting forms for
pier A.
9⁰⁰ 60 cut into tunnel

Pier-A	9- 2' x 3.5' =
Pier #1	6.2 x 3.5 =
	6.2 x 2 =
Pier #2	2- 1' x 1'
Pier #3	2- 1' x 1'
#4	2- 1' x 1'
#5	2- 1' x 1'
#6	2- 1' x 1'
#7	2- 1' x 1'
#8	2- 1' x 1'

1/2 bag

JUNY 7^{am} 11^{am}Hyatt 11^{am}

Casper 12.45

FDR. JUNY RB-Dennis 3³⁰ pm

4-27-36
Class 2 Excavation ✓

1 Power shovel

1-260 Camp

1-Wagon Drill IJH

1-60 Bulldozer

to Tunnel 10am

Labor 1-shovel op

6³⁰am shovel on point sta 21+00

driller and powderman black holes

sta 21+00⁺ 1 laborer - Out 11³⁰am

7³⁰am shovel back to sta 19+75

Bulldozer cleaning up point 21+00⁺

5pm 17+25

✓ 4-27-36

6³⁰am 5pm
Clear Warm 17

Tunnel

6³⁰am Ogler and Larp setting forms
pier A

Cat and McMillan mucking

Welder and helper on air lines

Field Eng. 2 laborers on sump pump

1-Driller - chipping and dowels IJH

9⁴⁵am sample cement to J.W. Golden
Gate

9³⁰am 1 load 3/4" gravel

1⁴⁰pm 2 loads 3/4" gravel

2⁴⁵pm 2 loads 1/2" sand

1-Cat and McMillan

1-260 Camp IJH

1-60 driven pump ✓

J.W. 7^{am} 9³⁰am 4pm Hinder 4pm

Hinder 8am Casper Hyatt 2³⁰pm

FOP 4pm

4-27-34 ✓ 12⁰⁰ to 5^{pm}
Class 1 Excav

1- 260" Camp

1- Wagon Drill

1- Driller @ 5 hrs.

From 27+60 to 27+25

4-27-34 ✓

Labor

1- Foreman - Watson	e 10.00
1- " - DeLong	e 10.00
1- Field-Eng	e 10.00
2- Shovel operator	e 5.00
1- Welder	e 5.00
2- Carpenter	e 5.00
2- Mr. Millan	e 5.00
1- Builder	e 5.00
1- Oiler	e 5.00
4- Driller	e 5.00
1- Powderman	e 5.00
1- Flunkey	e 5.00
7- Laborer	e 5.00

20

4-28-36 6³⁰am 5pm
Class 2 Excavation cool cloudy ✓6³⁰am Shovel at 17+25 Casting
12M 13+25 then back to point 21+05F8⁴⁵am Power off on 945Juvr. 7^{am} 8⁴⁵amHyatt 2³⁰pm

Class 1 Excav 4-28-36 21 ✓

1-260 Comp
1-wagon Drill1 Powderman
1 nipper
2 Driller

27+00 to 27+25

No work PM

6³⁰ am - Field Eng - 3 Lab. at sump
 1 Foreman - 1 Carp - 3 Laborers on farm and
 clearing - 1 Driller - chipping

2 driller pm

3 laborers

1-60 cat - McMillan

1-Gas Pump

1-60 Bulldozer Down 1 pm.

1-260 Camp

✓
 Labor

1-Foreman - Watson	c 10
1-Foreman - Poyser	c 10
1-Field Eng - Main	c 10
2 - Shovel operator	c 5 "
1-welder	c 5 "
2 - Carpenter	c 5 "
1 - McMillan	c 5
1 - Bulldozer	c 7
1 McMillan	c 4
1-oiler	c 5
5-Driller	c 5
1 - Powderman	@ 5
1 - Flunkey	c 5
5 - Laborer	c 5
2 - ..	c 5
1 - ..	c 1/2
1 - ..	c 4

4-29-36



- 1- Power shovel
- 1- 260 camp
- 1- Jack Hammer

1- operator		} am
1- Driller Wick	8 ³⁰	
1- Laborer Asay	8 ³⁰	
1- Powder man		

1- operator		} pm
1- driver	Hault	

4-29-36 6³⁰am-4^{pm} 25

Class-2 Excavation ✓

6³⁰am. to 8³⁰am shovel waits for
drilling and shooting 21+007
Today worked 21+00 to 14+00 - rock
and trimming
3pm shot 14+00

4-29-36

Tunnel

Deyler

Capp.

4 Lab

1 Mixerman 8:45

Stationary compressor set
today

4-29-36

Tunnel

1- 260' Comp

2 Pump

1- Bulldozer

1- McMillan

1- Concrete Truck 8:45

46:44

7:44

Pour part of pier #14 HA
net 27 bags Cement - Gross 29
Test Cyls. EC 8-9-10

Turnover 7:00 am - 12:00

Casper 12:00

Dennis 12:00

Hyatt 2:30 pm

4-29-36
CLASS I Excavation

1-Camp

1-Wagon drill

1-Driller pm

2675 to 27+00

1-Driller - white -

2675 end

LABOR

1-Foreman - Watson	e 10.00 End
1- " - Dugler	e 10.00
1- Field Eng.	e 10.00
1-Shovel operator	e 3
1- " " "	e 5
1-Welder	e 5
2-Carpenter	e 5
1-McMillan	e 5
1-Bulldozer	e 5
1-Oiler	e 5
5-Driller	e 5
1-Mixerman	e 3
1-Powderman	e 8
1-Flunkey	e 5
4-Laborer	e 5
1-Track Driver	e 6
2-Laborer	e 8
1- " "	6 1/2
1- " "	4

4-30-36

Labor

2 Foremen	e	10 hrs each
1 Field Eng	e	10
1 Shovel operator	e	5
1-roller	e	8
2-Carpenter	e	5
1-McMillan	e	5
1-Bulldozer	e	6
1-Oiler	e	5
11-Laborer	e	5
3-Drillers	e	5
1-Driller	e	8
1-Mixerman	e	7
1-Flunkay	e	5
1-Laborer	e	8
1-Laborer	e	3 1/2
1-Truck Driver	e	1 1/2
1/2-Laborer	e	5
2- "	e	6 1/2

Shrapshire

Trac Mechs. in pm. on cats

Dennis - 2³⁰pmJ. W. W. 7⁰⁰ - 10³⁰Hinds 11³⁰am Hyatt 2pm

Kasper 2 pm

Setting forms pier 2-3
Bulldozer moving equipment
and leveling road
Shovel changing to tire
Welder filling gaps in air
line complete tonight about 78+00
Shortage of drillers in am

Drilling class 1 Sta 11+75^{9:30 am also}
Start concrete pier 2-10^{9 am} - 11 am finish

1-grout^{2 sax} - 3 batches Pier #2 8 sax
1-grout^{1 sax} - 3 batches Pier #3 7 sax
Note - 2 sax in mixer

4³⁰pm Hoe on ditch line

Engineers setting points in tunnel
chipping pier 22
Wedding 78+00 F
Pier - A-Part
#1 - to thrust surline
#2 & 3 complete

4-30-36

- 1- Power Hoe Being assembled
- 2- 200 foot Compressors
- 1-60 Cat 1 shift Bulldozer
- 1-60 Cat McMillan 1 shift
- 1- Elec Pump
- 1- Gas Purap
- 1- Wagon drill
- 2- Jack hammers
- 1- 145 Rex mixer
- 1- 2 1/2 ton truck
- 1- Candy wagon

5-1-36

Labor

2- Foreman	e 10 Hr Each
1- Field Eng	e 10 "
1- Welder	e 6 " 15
1- Carpenter	e 5 "
2- "	e 8 "
1- Oiler	e 5 "
✓ Laborer	e 5 "
1- Driller	e 5 "
1- "	e 5 "
1- Mixer man	e 5 "
1- Flank Key	e 5 "
1- Laborer	e 7 "
1- "	e 5 "
1- Truck Driver	e 4 "
1- Laborer	e 5 "
1- "	e 8 "
1- Truck Driver	e 6 "
1- Mixer man	e 1 1/2 "
1- Laborer	e 3 1/2 "
10- Laborer	e 5 "

5-1-36

✓

1- Hoe
 2- 200. Camp
 1- Wagon Drill
 2- Jit
 1- Gas Pump
 1- Motor
 1- Dump Truck
 1- Candy Wagon

Jarvis 7^{am} 10^{am} 2^{pm}

Kasper 2^{pm} Hyatt 3¹⁵

Hinds 2^{pm}

6³⁰ am 5 pm 35

V

Operations

Hoe assembling am
 Class 1 Drilling - 12:50 to 14:00
 Dump Truck haul concrete and tunnel
 muck. Gas pump on tunnel drain
 Drill bowders 14:25 in am
 Set pier form and pour concrete 445
 Cats bath under repair

Pier 4 - 1. Cem 19 crut wasted

Rio. 4 3 .. 1 - used

7 bag used 3 wasted

Pier 5 8 bags 1. Crut 3^{1/2} concrete
 1 bag 7 bag

1- load form Lumber

5-2-36

Labor

2 Foreman	e 10	20
1 Field Eng	e 10	10
1 Welder	e 1	1
2 Carpenter	e 5	10
2 "	e 6	12
✓ 1 Laborer	e 5	5
1 Driller	e 5	5
1 "	e 1	1
1 Powder man	e 7	7
1 Mixer man	e 6	6
1 Flunkiey	e 5	5
✓ 5 Laborer	e 5	25
1 Truck Driver	e 6	6
1 Laborer	e 7	7
1 Mixer man	e 2	2
1 Laborer	e 5	5
2 Laborers	e 6	12
2 Laborers	e 6 ^{1/4}	12 ^{1/2}
		144 ^{1/2}

1- Road 1 1/2"

Hind Juv 9²⁰ Oliver 9¹⁵ amBeans near wagon 7²⁰JWW-P.B-Hind 3³⁰ pm

✓ 5-2-36 6 am 6 pm 37

Class 1 drill 14+00 to 10+00

Class 1 shoot 11+75 to 12+30

Pour pier #6-7

Muck Tunnel Portal

1-Hoe-Idle

1-Mixer

1-Camp-²⁶⁰Wagon Drill

2 Pumps

1-Candy Wagon

1-2yd Dump

Pier	Batch Grout	Corn Grout	Batch Cone	Corn Cone	Total Cone
Pier 6	1	1 1/2 bar	3	6	7 1/2
		218			
Strip Pier #1		NOON			
Pier #7	1 gr	1 cem	3 1/2	7 1/2	8 1/2
					16
Pier #8	1 gr	1 cem	3 1/2 Cone	7 corn	8
					24

5-4-36

✓

Labor

1. Sept @ 10 Feet
 2. Formmen @ 10
 1. Hoe operator @ 8
 1. Welder @ 8
 2. Carp @ 6
 2. " @ 8
 2. " @ 4
 1. Oiler @ 5
 3. Drillers @ 5
 1. Powderman @ 5
 1. Flunkie @ 5
 1. Truck Driver @ 6
 1- " @ 5
 1. Mixerman @ 6
 4. Laborers @ 5 1. Laborer @ 7 1/2
 2- " @ 8 1- " @ 5
 1- " @ 4
 3- " @ 6
 1- " @ 1/2
 1 (1/4 bag) cem clowak

5-4-36

6:30 am 6/20

39

Carpenter shift starts midnight
 Set forms 9+10 - Pulled airline from
 tunnel, east of pier #10.

Hoe sta 11+75 westward to 12+17
 Wagon drill - 260 Comp on Class 1 Excav
12+00 13+50 - 16+00 to
 Cut in stationary compressor

shoot class 1 sta 12+30 to sta 14+25
 Eng. set points to pier #34
 Hoe broke cable 9 am
 Pull air line
 from tunnel
 east of pier #10

1. Hoe - 1 Mixer - 1. 260 Comp
 1. Stationary Comp + Wagon Drill
 1. 2yd Dump - 1 Candy Wagon
 Gas pump

Class 1 drilled 11+75 to 17+75 ft
 also 30+00 to 27+25
 strip 2+3 load 3/4 gravel 1 1/2 m

Piers 9-10 Conc 9 1/2 bat - 19 bags
 Grout 1/2 bat - 1 bag
 20 bags

#9.40 unit

#10 5 1/2

Hyatt 3pm 5m 345 Casper 345

Labor

1-Supt c 10 to 5:00
 2-Foreman c 10 to 5
 2-Hoe Operator c 5
 1-Welder c 5
 3-Carp c 6 1/2
 4- " c 7
 1-Drill c 5
 1-Drill 7-105-106-10 6 1/2
 1-Powder man c 8
 1-Flukey c 7
 1-Track Driver c 6 1/2 - 10 5
 1-Mixer man c 5
 5-Laborer c 5 - 6 1/2 - 307
 4-cs

40 min

Jan 7 ^{3 1/2} am Casper 3 pm
 Hand 3 pm Dennis 3 1/2 pm

Night crew set 11-12-13 Pier
 1-drill chipping - 1 JH - 1-260 camp
 Class 1 - shoot 14+75 - west to
 chipped to pier # 27
 Hoe start 15+15 - End 16+25
 Class 1 - Drill - 17+75 to 1st 200
 Sweep Tunnel Floor

1-260 camp 1-5th camp Wagon Drill
 2 JH - 1 Candy wagon - 1 Dump
 1-Gas Pump Hoe - 1 Mixer

Set derrick 14-15-16-17 ^{161-171 start} 1/2 bag cement
 11-Sack rejected wet
 Pour pier 11-12-13 Grout anchor
 22 Bags conc 7 Grout
 strip 6-7-8
 1-load 1 1/2" rock
 Grout anchor 14-15-16-17 (1/2 bag)

5-7-36

Labor

1-Supt @ 10 2-Foremen @ 10
 1-Hoe Operator @ 5 1-Hoe Operator 3 1/2
 1-Welder @ 5 1/2
 4-Carp @ 7 1/2 4-Carp @ 8
 1-Oiler @ 5
 1-Driller @ 6 - 108 - 2 @ 6 1/2 - 105
 1-Ponderman @ 5 - 1-Bulldozer @ 7
 1-FunkKey @ 5
 1-Truck Driver @ 3 - 1 @ 5 1/2
 1-Mixerman @ 5 1/2
 8-Laborer @ 8 2 @ 5 1/2 - 1 @ 2 1/2
 3- " @ 7 1/2 - 5 @ 5 - 1 @ 4

In by 7³⁰ am 3⁴⁵ pm
 Casper 3⁴⁵ pm

5-7-36 6³⁰ am 4 pm 43
 6³⁰ pm 8 pm

Hand work class I sta 12+25 westward
 Hoe 16+25 West 17+35
 Drill 18+00 West to 20+75

1-

Hoe - stationary Camp - Wagon Drill 25 ft
 Mixer - Dump Truck - Candy Wagon
 1-Cat-60

Pour Pile 14-15-16-17-7⁴⁰ am 1345ay
 2 Grout 32 Concrete Total 34

Test. Cyl. EC 11-12-13
 Strip 9-10

5-8-36

Labor

1 Supt @ 10 2 Foremen @ 10
 2 Hoop Opr @ 5 Welder @ 8
 4 Carps @ 5 2 @ 7 - 2 @ 8
 1 Oiler @ 5
 1 Driller @ 6 4 @ 5 - 1 @ 7 - 1 @ 6 1/2
 1 Powderman @ 6 - 1 Bulldozer @ 8
 1 Flank Key @ 5
 1 Truck Driver @ 5 1 Maxmar @ 5
 12 Laborers @ 5 2 @ 7 - 1 @ 2 1/2
 1 " @ 1 1/2 - 2 @ 7 - 1 @ 6 1/2
 1 " @ 6

Road slump case
 this noon

Leave 8 am

Hyatt Casport 3 pm

5-8-36

6 am 5 pm
7 pm 8 30 pm

4 pe 17+35 to 17+50
 8th Hrc to 12+75 to 12+10
 shot to 20+75
 Drilled to 21+25

4 pe Class I Drill class #1 Bulldozer Leveling
 Dump Truck Mixer - Wagon Drill 2-JH
 Caddy Wagon - Sta. comp

Nite crew set 21+21 - chip
 and partly set #23

7th day Pour Pier 18-19-20 1/2 bag gravel clavers
 35 bags con (21-22) 1/4

35 1/2 = 35 1/2

9+ Bag cum 10 am

Took sample EC. 14
 cement

5-9-36

Labor

1-Supter 10 2 Farmers 210
 1-Hoe Optra 4-1 @ 6 1/2
 1-Welder @ 3 1/2
 2-Corp @ 5-2 @ 3 - 2 @ 6
 1-Oiler @ 5
 1-Drill @ 7 - 1 @ 6 - 5 @ 5 - 1 @ 4
 1-Bulldozer @ 8
 1-Flank @ 5 1-Tractor @ 6 1/2
 1-MXV man @ 6
 5-Lab @ 5
 2-@ 3 1/2
 1-@ 4 1/2
 1-@ 6
 3 @ 7
 1 @ 7 1/2
 1-@ 8
 1-@ 5 1/2
 1 @ 1 1/2

11 am JNIN HYN

11:30 am Kasper Damm 3:15 pm

5-9-36

6:15 am 5 pm

Hoe 13+10 west 13+40	Hoe
Drill 21+25 west	Sta-camp
Bulldozer Leveling and building sandroad	60 Bulldzr Wagon Drill Mixer Dump Trk Candy Wagon 2-5 ft 1-600 Pump

strip 11-12-13

Pour #21-22 start 9:30 am 12:45
 35 bags 2-grout 33 Conc

5-11-36

1

Labor

1-Supt @ 10	2 Foremen @ 10	3	
1-Hoo Op. @ 5	1 @ 5 1/4	2	
1-Welder @ 5		1	
7-Carp. @ 6	1-Oiler @ 5	8	
1-Driller @ 7	6 @ 5	7	
1-Rawiderman @ 8		1	
1-Bulldozer op @ 5	1 @ 3 1/4	2	
1-Mixer man @ 5	1 Flunkey @ 5	2	
1-Truck driver @ 5		1	
14-Lab @ 5	2 @ 6	2 @ 8	18

35 Men

T. W. 7:55

Rasper, Dennis Arrived 3 pm

5-11-36 6:30 am 5 pm

Hoist 127 to west to 14400	Hoist
Bulldozer Leveling	Mixer
Wagon drill 32+50 west to 24+20 dump Tr	
Shot to 32+50	condy wagon
Carrier Hales to pier #21 inc	sta. camp
	wagon drill
	2 JH
	Pump

Four Pier #23 15ax @ 100 37 cork Total 38
 1/2 bag gravel grout

5-12-36 ✓

Labor

1-Sept @ 10	2 Ferromen @ 10	1 Field Eng @ 10	4
2 Hoe operators @ 5	1 welder @ 5		3
5-Carp @ 6 ^{1/2}	4 @ 6	1-oliver @ 5	10
6-Drillers @ 5	1-Powderman @ 6		7
1-Bulldozer operator @ 2 ^{1/2}			1
1-Mixer man @ 5	1-Hokey @ 5	1-Tin @ 5	3
14-Laborers @ 5	1 @ 6	1 @ 3 ^{1/2}	16
4- " @ 8			4
			48

48 Men

Debris - 12 M Hyatt 2¹⁵
FDP. JWH 4 PM

5-12-36 ✓

625 ✓

Hoe 14:50 -	Hoe
12 th Hoe to 17:50	work west 1940 th Sta Camp
Bulldozer leveling	60. Cat Bllder
Wagon Drill - 24+20 to 26+25	Carry wagon
	Dump Trk
	2 JH
	wagon Drill
	14.5 Mixer

Complete carrier notes
chip to Pier #34

Pour 24+25 7³⁰ am 1 Bag Grav 41 Core
42 Bag Total
Grout diamels 24-25-26 113 bag
43 ✓

1/2 bag 113

Test cyl. 12 added EC 15-16-17

5-13-36

Labor

1-supt @ 10	2-Foreman @ 10	1-Field Eng @ 10	4
2-Hoe Operator - 1 welder @ 5			3
9-Carp @ 6	1-Officer @ 5		10
1-Driller @ 7	2 @ 6	4 @ 5	7
1-Powderman @ 7			1
1-Bulldozer Op @ 5			1
1-Mixerman @ 5	1 Flunkey @ 5		2
1-Truck Driver @ 5			1
13-Laborers @ 5	2 @ 7 1/2	4 @ 6	19
1- @ 5 1/2			1

49 min

J.W. IN 7³⁰ Hyatt-Casper 2³⁰ pm ✓

VI

Hoe 19+00 to 20+75	Hoe
shoot 22+50 to 24+25	Sta. Comp
Drill 26+25 to 27+85	Wagon Drill
TH. Class. 2 11+00	2-T.H.
	Mixer
Bulldozer Leveling at Hoe	Gr. Cat
	Dump Trk
	Pump

Piers 26-27-28 Grant's say

Cancel 4

67 Total

✓ 1/2 bag Dowels

1/2
67 1/2

Labor

1-Supt eio 2-Foreman eio 1-Field Eng eio 4
 2-Hoe Op e 5 1-Welder e 5 3
 9-Carp e 4 1-Off e 5 10
 5-Drillanc 2 e 7 1-Binder mat e 5 8
 1-Bulldozer e e 2 1 e 5 7
 1-Mixer e 5 1-Flunkey e 5 1-TxD e 5 3
 11-Laborer e 5 5 e 6 4 e 8 1 e 5 1/2

(51)

51 ✓

Truck 7⁰⁰ am

Dinner 2 pm

Hoe 20+75 to 23+75 Hoe
 Wagon Drill 27+85 to 29+30 Sta. Camp
 TH Drill Class II 11:00 am Wagon Drill
 Shop Class II 11:00 13⁰⁰ 2-TH
 Mixer
 Pump
 Dump Truck
 60-Bulldozer
 Candy
 Wagon

Consolidated Starts Elec Equip

7³⁰ am
 Paul Piers 29+30 43 conc ✓

2 Grad

Total 45 Bag

Grout dowels 1/2 Bag
 45 1/2

Labor

1-Supt @ 10	2 Foremen @ 10	1 Field Eng @ 10	4
2 Hoops @ 5	1 welder @ 5		3
6 Carps @ 6	3 carps @ 5 1/2		9
1 roller @ 5			1
1 Driller @ 6	2 @ 7	4 @ 5	7
1 Powderman @ 4	1 Bulldozer @ 8		2
1 Mixer @ 6	1 Truck driver @ 5 3/4		2
2 Laborer @ 6	4 @ 5 1/2	5 @ 5 3/4	13
11 - "	@ 5	2 @ 4	14
Total 55			

J.W.H. 6¹⁵ am

Kasper 1³⁰ pm

Hoe 22775 to 25+50	Hoe
Wagon Drill 29730 to 30+00	Star Camp
Drill class II 11 test shoot 1 pm	Wagon Drill
Bulldozer under repair in am	2 JH
level ahead of shovel and	Condy
Class II in pm	Wagon
shoot to 27+00	14 SMIX
	Pump Truck
	1 Pump

Told Maninning
about mats

Consolidated starts Mon rail
wait 40 min for cement

Pour Piers 31-32-33 65+8 = 73 total

3 @ 20 70 com

Dave 1 @ 20

71

5-16-36 ✓

Labor

1 Supt - e 10	2 Foremen e 10	1 Field Eng e 10	4
2 Hoe op - e 5	1 e 4 1/2	1 Welder e 5	4
✓ Camp e 5 1/2			✓
1 Oiler e 5			1
4 Driller e 5			4
	1 Bulldozer e 6		1
1 Mixer man e 4	1 Tractor e 4 1/2		2
1 Laborer e 6 1/2	4 e 4 1/2	13.05	18
1 Laborer e 5 1/2	1 e 1 1/2	1 e 4 1/2	3
1 Laborer e 1			1
			40

H0man

(27)

Kasper 1¹⁵ pm

Twey 9 am

5-16-36 6³⁰ am 5 pm

Hoe 25+50 to 26+75	Hoe
wagon drill 30+200 to 30+200	5 Driller
1-TH 11+00 F	2-TH
No air for wagon Drill	1 Wagon Drill
Ape line cut for Hoe to pass.	1 Candy wagon
Bulldozer Leveling and Class II	1 2nd Driller
	1 Pump
	1 Mixer

Four Pier # 34 1 Bag Grant 24 cars total 25

Labor

1- Supt e 10 1-Farmhand e 10 1-Field Eng e 10 3
 2-Hoe Operator e 5 - 1-welder e 8 3
 2-Carp e 8 2 @ 6 1/2 4
 2-Powderman e 5 1- Miller e 5 2
 1-Driller e 7 6 @ 5 7
 1-Bulldoz op e 5 1
 4-Labors e 7 - 3 @ 8 - 3 @ 5 37
 3- " e 6 1/2 - 6 @ 4 1/2 18 9
 66

67 Men

Steel Co 1-Supt 1-Farmhand 2 Elec

Jimm. 7 am

Kasper 1 30 pm

Hyatt - 2 30 pm

Hoe 24775 to 28725
 Wagon Drill 30+00 30+00 No 911
 Bulldozer Leveling and class II 11+00+
 Start hand labor - class I 13+50 + West
 to
 Carpenter forming #35
 class I spot to 29+50

Hoe

Sta Cam

3-7 H^o

60 Cat

Mill

Pump

Wagon Drill

Candy wagon

Dump Tr

Textol - 4" clamp EC

5-19-36

Labor

1-Supt @ 10	1 Foreman @ 10	1 Field Eng @ 10	3
2-Hoe Operator @ 5	1 Wagon @ 3		3
2-Caips @ 5 1/2	2-@ 7		4
2 Powdermen @ 5	1-@ 11 @ 5		3
7-Drillers @ 5	1 Driller @ 6 1/2		8
1-Bulldozer Operator @ 3			1
1-Truck Driver @ 5	1 Mixer @ 6		2
18-Lab @ 5	2 @ 6 1/2	1 @ 8	21
13-Lab @ 5	1 @ 8		14
6-Lab @ 8	9 @ 5	2 @ 6 1/2	19
1 @ 3	1 @ 2		2

Steel

1-Supt

1-Foreman

9-Lab

2-Chainmen

Kaspar 1 30 pm

Hyatt 3 pm

Turn 6

Hoe 28+25 to 29+50	Hoe
Wagon Drill 30+00 to 32+00	Cat Bidet
Bulldozer Leveling Spall	200 Corns
Hand Labor added 11+00 to 14+00	Sta Corns
	2-T.H
	Candy Wagon
	Wagon Dr
	Mixer
	Pump

start 3rd shift drilling 5 pm to 10 pm

Pour Pier #35

powels	1 Sax
Grout	2 Sax
Concrete	76
Total	79

Tested - 11.9 gal. 4" slump EC 18-19-20

Labor

1-Sept 10 - 1 Foreman e 10	1 Field Eng e 10	3
2-Hoe operators e 5	1-Welder e 5	3
2-Carpenters 2-e 10		4
1-Powderman e 6	1-e 5	10
1-Oiler e 5	8 dummies	2
1-Bulldozer e 5		9
16-Lab e 5	207-200' x 102	1
13-Lab e 5	704 100' x	21
9-Lab e 5	404	21
		13
		77

77 Men

Consolidated bring in rock for Monroville
" " " Pipe Crane

J.W. G^{2nd} Kasper 1¹⁵
Harritt-Dyall 2⁴⁵ pm

Hoe 29+50 to 30+90	Hoe
Wagon Drill 32+00 to 32+35	Cat
Bulldozer 11+00 F	Sta Camp
	260 Camp
	Mixer
	3 JH
Hand labor ditch 11+00 to 14+00	Mixer
" " Vulture box drain	Candy wdg
	Dump Trk
	Wagon Drill

10⁴⁵ am Hudson ratified Manworking that
the cutting of bank at 32+00 F is at
contractors expense

Labor

1 Supt c 10	1 Foreman c 10	1 Field Eng c 10	3
2-Hoe Operator c 5	1 Welder c 4		3
2-Carp c 4			2
2 Panderman c 5	1 Miller c 5		3
8 Driller c 5			8
2 Bulldozers c 5	1 TFK Driver c 5	1 Mixer man c 5	4
14 Lab c 5	3 c 5 1/2		17
17-Lab c 5	1 c 2 1/2		18
11-Lab c 5	1 c 4	1 c 3 1/2	13
4+			
			71

Consolidated - First rail in 10³⁰ am

Hanger complete to Plug

& Pipe grade

T.W.M. H.V.N. 10³⁰ am T.W.M. 2³⁰ pm

Kaplan 2 pm T.W.M. FDP 3³⁰ pm

Hoe 30+90 to 37+50	Hoe
wagon Drill 32+35 to 34+25	Stasam
Bulldozer Level spoil at Hoe	200 Comb
Hand labor 1100 west	Bulldoz
Valve Box drain, Ex	Mixer
Pier # 28 Excavation	Wagon Drill
Valve Box Ex	374
	Cond. Wagon
	Dump Truck

Pour Pier 36-37

Crout 2

Dowels 1

Concrete 54

Total 59

5-22-36

1-Supt 10 1-Farmhand 10 1-Fitter 10 10
 2-Hoe operators 5 1-irregular 5 6
 3-Pondermen 5 1-Office 5
 7-Drillers 5 1 c 6
 2-Bulldozer ops 5 1-Mixerman 5 15
 16-Lab 5 1 c 6 1 @ 6 3/4 18
 16-Lab 5 1 c 5 1/2 17
 12-Lab 5 1 c 4 1/2 13
44 19

Cam Monorail

1-Crane

Casper 1³⁰pm T. V. H. V. N. 2pmDennis 3³⁰pm

5-22-36

Hoe 32+50 to 34+00 Hoe
 Wagon Drill 34+25 to 38+75 Mxr
 Bulldozer Level Spoil Bank Bidet
 Class I - Hand Labor 11+00 to 14+00 Pump
 Foundation Ex. Pier #38 Sta Camp
 Valve Box Drain - Valve Box Ex 260 Cam
 Spot to 36+00 3-JH
 shovel down most of clay bed cables Cardy
 3 shift class I drilling 5am to 10 pm Pump Tr
 2 shift Hoe Wagon Drill
 2 shift Hand labor ditch and structures
 2 men 2 hrs drawing spoil and making berm

5-23-36

Labor

1. Supt	10	1 Foreman	9.10	1 Field Eng	10	
1. Hoe operator	2.5	10.6	1 loader	3.75		
1 Powderman	4	10.5				
1 roller	2.5					
6. Driller	2.5	10.11/2				
2. Bulldozer	2.5	10.10	2.75			
3. Laborer	2.5	10.3 1/2	2@3	10.8	10.7	
13.0"	2.5	10.2	10.2 1/2	10.3 1/2		
6. Laborer	2.5	10.5 1/2	10.2 1/2	10.2	2@3	10.1 1/2
27					55	

Consolidated mt working

Frank Kasper 1³⁰ pm

5.0am 5.30pm

Hoe at 34400 to 35775	Hoe
Wagon Drill 38775 to 39100	Stn Camp
Bulldozer Level bank	260 Camp
Hand Labor class 11200 to 14700	Candyman
2 shift - 2 men each	
Batter 11400 to 14700	Dumetec
Valve Box Ex 13700	Miner
shot to 38775	wagon
	Drill
	STH
	Bldg
	Pump

Labor

1 Supt @ 10 1 Foreman @ 10 1 Field Eng @ 10

1 Hoe Ophe 7 1/2 1 c 5 2 1 1 c 5

1 Powderman @ 7 1/2 - 1 c 5

4 Driller @ 6 1 c 7 3 c 5

2 Bulldozer @ 5 1 Mixerman @ 5

15 Laborer @ 5 2 c 7 1 c 8

18 " " @ 5 3 c 6 1 c 3

15 " " @ 5 1 c 6 1 c 3 1/2

34

6 men

Hoe - wagon drill Sta. camp - 260 camp

3 7H. Mixer. Candy wagon - Dump Pit

Bulldozer - Pump

Twine 7^{am} 11^{am} 1^{pm}Kasper 1^{pm}

4am, 10pm

Hoe 35+75 to 38+80

Wagon Drill 39+00 to 40+50

Bulldozer Level bank 32+00 + Bridge PM

Hand Labor Class I 17+00 to 14+00 F

Berm 13+00 - 4+00

8^{am} 5 men 17+00 No Labor in pm on this9^{am} 6 men 17+00

Bridged ditch at camp in pm

Tackhammer to help wagon drill in pm

Told Watson to have wires on pier clipped
and finished by June 1. Also all necessary
patching

Grant anchor pier #38 150x

4 Holes 4'-4" each

4 pcs 1" - 5'-6" Long

Labor

1-Supt @ 10 - 1 Foreman @ 10 - 1 Field Eng @ 10
 2 Hoe Op @ 5 - 1 welder @ 5 - 2 cap @ 6 1/2
 2 Powderman @ 6 - 1 oiler @ 8
 4 Driller @ 6 - 3 @ 5 - 1 @ 4
 1 Bulldozer @ 5 - 1 @ 6 - Max man @ 6
 1 Oiler @ 5
 10 Labor @ 5 - 3 @ 6 - 4 @ 6 1/2 - 2 @ 8
 19 - " @ 5 - 1 @ 6 - 1 @ 5 1/2 - 1 @ 2
 6 - " @ 5 - 1 @ 4

35

Hoe - Bulldozer - Sta. Camp - 260 Camp - 3 J.H.
 Wagon Drill - Dump Tr. Candy Wagon - Mixer

J.W. W. 7 1/2 @ 11 @ 1 1/2 pm

B. W. 1 1/2 pm Munch

K. W. 1 1/2 pm

Hoe 38+80 to 41+00

Wagon Drill 40+50 to 43+25

Bulldozer at Hoe - Leveling and Benching

Hand Labor 11+00 to 14+00 class I.

" " 17+00 - Y. 6 1/2 shifts

Carp. on Pier # 38 and closure scaffolding
For drilled

2 J.H. 11+00, 14+00

1 J.H. with Hoe

3 shifts of driller on class I at Hoe

Drill holes for closure of tunnel

Pour Pier Footing # 38 7 Bags

Labor

1-Exptero	1Foreman	1FieldEng	10
2Hcopts	25-1welder	25	
2-Carp	7 1/2		
1-Painter	27	105	
1-0iler	07		
2-Drill	26	405	108
			106 1/2
2-Bulldozer	25	1Mixer	28
1-0iler	25		
8-Laborers	408	207 1/2	206 1/2
			107
			106
18- "	05	208	106
			21
5- "	05	108	
			4
<u>31</u>		7	

Hoe-Bulldozer sta. Camp - 260 Camp
 Wagon Drill Candy Wagon - Dump Tru
 3-J.H. Mixer Pump
 Tr. W. 7^{am} / 3^{pm} 3^{pm}
 Kasper 1^{pm}
 FDP Ault 3^{pm}

Hoe 4100 to 4375
 Wagon Drill 4025 to 4535
 8 Bulldozer at Hoe - Leveling and Benching
 Hand Labor Class I 1100 F to 144
 " " Y 1700 - Complete
 11 Carpenter Forming Pier #38
 3 1-J.H. 1100 1400
 Shot to 4425

3⁵⁵pm Told maver that valve chamber
 floor must be made solid. That
 he could use any method he desired
 that would accomplish the required end
 Pier #38 1 Bag gravel
31 Core
 32 Total

1- Supt C 10 / Foreman C 10 1- Field Eng C 10
 1- Hoop C 7 105 1- Welder C 7 1/2
 2- Carpe 5
 1- Powderman C 6 1/2 106
 1- Oiler C 5
 4- Drillers C 5 306 106 1/2
 1- Bulldozer C 7 105
 1- Mixer C 8
 1- Oiler C 5
 9- Laborers 608 206 1/2 106 19
 12- " C 5 108 207 1/2 106 16
 5- " C 5 ? 106 6
 16 3

Hse - Bulldozer - Wagon Drill - 3 JH
 Sta Camp - 260 Camp - Pump - Mixer
 Candy - Wagon - Dumpster

T.M. in 9⁴⁰ 12 M. 2⁴⁵
 H.V.N. 9⁴⁰
 Carpe 2⁴⁵

Hoe 43+75 to 45+25
 Wagon Drill 45+35 to 46+00 54+75 to 55+15
 Bulldozer at Hoe and 37+00
 Handlabor - Class I 13+00 to 18+00
 Four-Valve chamber floor 13+00
 1 Jackhammer Class I 14+00 to 21+00
 shot to 46+00
 Drillers skipped 46+00 to 54+75

Valve Box Base 40 Bags 20 Bul-hse

Labor

1-Supt @ 10	1 Foreman @ 10	1 Field Eng @ 10			
1-Hoe @ 6	1e5	1-mixer @ 4 1/2	2 coppers		5
1-Pon. man @ 3	1 @ 6				
1-011 @ 5					
1-Driller @ 6	5e5	1e4			10
1-Bulldozer @ 6	1e5	1-mx man @ 3			3
1-011 @ 5					1
9-Lab @ 5	2e4	2e4 1/2	4e2 1/2	1e6	18
13- " @ 5	1e4	2e4 1/2			16
5- " @ 5	3	4	1	1e6	6
27				2	

35
27
62

Hoe-Wagon Drill - 3TH. Candy Wagon
Dump Truck - Pump Mixer. Sta. Camp
260 camp Bulldozer

Jan 9 am P.B. 2 pm

Kasper 2 pm

5-29-36

5 am 5:30 pm ✓

Hoe 45+25 to 46+75
Wagon Drill 55+15 to 55+50
Bulldozer Bldg. 3hafty and
leveling
Pour seating Block - 19+00

Contractor Erects Gate of capetarin

16-Conc Footing Vals & Box 13 1/2

2 Groat Block

Labor

1-Supt c10 1 Foreman c10 1 Field Eng c10
 2-Hoe Cpt c5 1-welder c6 1/2
 1-Pondorman c5 1e 5 1/4 1-ailer c5 9
 7-Driller c5 2c6
 2-Bulldozer c5 1-Truck c5 1/4 1-ailer c5
 18-Lab c5 2c4 2c2 22
 15-Lab c5 1e 5 1/2 16
 3 3

27
 33

Hoe - Sta Camp - 260 Camp - 3 J.A. Wgn Drill
 Dump Truck - Candy wagon - Pump
 Bulldozer - Mixer

Kasper 1 1/2 hr

Hoe 46+75 to 49+35
 Wagon Drill 55+50 to 56+50
 Bulldozer Shovel 56+50 F
 Excavation anchor Excav - Y at 17+00
 Hand Labor class I 13+00 to 17+50
 Jack hammer drill
 in class I 17+50 to 37+00

Labor

1. Supt @ 10 1 Foreman @ 10 1 Field Eng @ 10
 2. Hoop @ 5 1 welder @ 5 1/2 2 Powdermen @ 5
 1. Oiler @ 5 9
 8 Drillers @ 5 7 Bulldozers @ 5
 1 - Track Dr @ 3 19 Oilers @ 5 12
 19 Laborers @ 5 19
 20 - m @ 5 10 2 21

Called Menning's attention to ditch condition
 47+50 - 49+50 F. and he volunteered to spend it
 Also cautioned him about powder from train
 along road. Told Alvie, Bob and Mike about
 Forest Service regulations on fire shots

July 11 1922

Kasper 1 pm

Shropshire 1 5 pm

Hoop 49+35 to 51+75
 Wagon Drill 56+50 to 57+60 74+30 to 75+50
 Bulldozer at Hoop and 12+00 F on
 spoil. Leveling
 Hand Labor Class I 13+00 F to 20+00 F
 Jackhammer drill rock Class I
 30+00 to 45+00 F

Hoop - Wagon Drill. Sta Comp. 260 Comp 37 H
 Candy Wagon Mike - Pump 7 H
 Pump Bulldozer

Lab 91

1. Supt. 10 1 Foreman 10 1. Fuel Eng 10
 2. Hoo Op 5 - 1. Crane 08 - 1 C2
 1. Welder 05 1 Powder 05 100 - 1. Lumber 5 - 11
 8. Driller 05 2. Bulldozer 05 1. Trk 05 1. Lumber 10
 17. Laborers 17
 18. " 05 1 C8 19

Timber 7th 12th
 Kasper 1st

Hoo 51+75 to 53+70
 Wagon Drill 75+50 to 77+00 97+00 to 77+50
 Bulldozer Loading 13+00 - 15+00 - Move air line
 58+00 West
 Universal 16+00 to 24+50
 Handwork 11+00 to 20+00
 17+00 Y anchor
 3. JH. 14+50 to 45+50

Hoo - Wagon Drill - Sta. Camp - 260 Camk
 3. JH. - Universal shovel - Mixer - Bulldozer
 Sandy Wagon - Camp Trk - Pump

Labor

1-Supter 10 1-Farmhand 10 1-Field Eng 10
 2-Hood 10 0.5 - 1-Ford 10 0.5 10.3
 1-Welder 0.5 1-Ponderosa 0.2 10.5 10
 1-011eres
 8-Drillers 0.5 2-Bulldozers 0.5
 1-Truck 0.5 1-011eres
 19-Laborers
 19- " 0.5
 5- " 0.5
45

Talked with Manviaring about tightening bottom of
 ditch. He and Dennis have discussed it and will
 do it on fine grading, which will be done just
 ahead of Mapipe

J.W. 7:50 am

Kasper 1:30 pm

^{5:45 noon}
 Hoe 53+40 to 55+60
 Wagon Drill - Relay airline
 Bulldozer at shovel
 Crane 2450 to 14400 Rock and level spoil
 Handlabor 11:00 to 2:00
 J.H. 24+50 to 38+00
 Bulldozer 2 Lab - 1 J.H. on Shooply 58+00

Hoe - Wagon Drill - 3 J.H. Sta Camp - 260 Corn p
 Universal - Crane - Pump - Mixer - Candy
 Wagon - Dump Truck

Labor

1-Supter 1 Foreman 10 1-Field Engine 10
 2-Exc. Op. 5 1-Crane 5 1-Welder 5
 2-Powder 5 1-Oiler 5
 8-Drillars 5 - 2-Bulldozers 5
 1-Truck 10 1-Car 5
 18-Laborers 5 1-Car
 17- " " 5
 5- " " 5
 4

Hoe 55460 to 52475

Wagon Drill - No operation

Bulldozer - Banching for air line

Crane 14400 to 26450 chaming row

Hand Labor 14400 21400

2 JH 13450 to 32400

1 Trk. on sheeply

Hoe Wgn. Drill - Pump Mixer. Dump

Candy Wgn. Sta. Camp - 260 Camp 3 JH

1-Ford Shovel Crane - Bulldozer

John Tim Hyatt 8:00

Kasper 2:30pm Dennis 4:15pm

Labor

1. Supt 1.0 - 1. Foreman 1.0 - 1. Field Eng 1.0

2. Hoop Op 2.5 - 2 Ford Crane 2.5 - 1. Welder 3.0

1. Powderman 2.5 - 1. 4 rollers 2.5

5 Drivers 10.4 - 2 Bulldozers 2.5

1. TRUCK DR 3 1/2 - 1. roller 5

16 Laborers 5

13 " 2.5 - 10 4 1/2

8 " 2.5

37

Hoo - Bulldozer - Sta Camp - 2nd Camp

3TH - 1 Pump - Dump Truck - Mixer

Candy Wagon - 1 Breaker - 1 pump - Ford crane

Jivon 7^{am} 12^{30pm} 3pmKasper 12^{30pm}

Hoo 56+75 to 59+50

Crane 22+00 27+00

Hand Labor Class I 14+00 to 20+50

Bulldozer - air line 92+00 to 97+00

1. Pavement Breaker - 20+50

3TH - 20+00 to 56+50

Labor

1-Supt 10- 2 Foremen 10 1-Field Eng 10
 3 Hoe operators 5 - 2 Ford Crane 5
 1-welder 5 1-Drumman 6- 105 1 value 5 13
 6 Drillers 5 106 2 Bullmocs 5 13 more 4 10
 2 rollers -
 17 Labor 5 19
 20 - " 5 101 105'ly 21

Hoe - Bulldozer - Candy wagon - Dump Trk
 Sta camp - 2 JH - 1 Breaker - 1-2 ton pump
 - Mixer - Pump - Ford Crane

2 mix 1 pm

Kasper 1 pm

Hoe 59+50 to 62+75
 Crane 25+00 to 32+00
 Hand Labor 20+50 23+00
 Bulldozer 99+00 widening road
 welder 90+00
 1-Breaker with Hand Labor
 2 JH. at Hoe
 1 JH - 21+00
 start 3 shifts on Hoe.
 Start hand work on Bell Holes
 11+00

Labor

1-Supte 10 2-Farmenec 10 1-Field Eng 10
 3-Hoe 25 2-Crane 5
 1-Welder 5 2-Powdermen 5 1-Oiler 13
 6-drillers 5 2-Bulldozers 5 1-Mixer 5 5
 1-Truck 5 5
 2-Oiler 5
 11-Laborer 5 4c 5 1/2 1e 1/2 18
 18- " 5 3c 5 1/2 21
 3- " 5
 3¹

Burnin Pna 11³⁰

Matheson - 11³⁰

Karpis 1³⁰ pm

6-9-36

4^{am} 7^{pm}

1-Hoe 62+75 to 64+80
 Wagon Drill 7d 10
 Hood Labor class 17+00-22+00
 Ford Crane 14+50 to 27+00 chaining
 rock.
 welder 9+00 F
 1-Breaker in ditch and Bell Hole
 1-JH at Hoe 2 shifts
 1-JH Bell Hole 12+00 PM - short ahead PM
 10⁵ am Bulldozer to 15+50 - 32+00
 Bulldozer 6³⁰ am to 2³⁰ am 99+00 widening
 road

Hoe-wagon Drill - 3-JH - 1-Breaker
 1-Sta Camp - 1-263 comp 1-Candy wagon
 1-Dump Trk - Mixer - Pump - Bulldozer

Put
 valve seat and foot 09 12+00

27 Back

Labor

1-Supter 2 Foreman e 1 Field Eng e 10
 3-Hoe ophe 5 - 2 Crane e 5
 1-ryalder e 5 - 2 Powdermize 5 1 oiler e 5
 7-Driller e 5 - 2 Bulldozers 5 1-Truck Ore 7
 2-Oiler e 5
 16-Labara e 5
 20- " e 5 1-Labara 3
 4- " e 5
 40

Hoe-wagon drill - 1 Sta Camp - 1 2nd Camp 3-JH
 1-Candy wagon - 1-Dump Truck - 1 Mixer 1-Pump
 1-Field Crane - 1-Breaker - 1 Bulldozer

at 10³⁰ - 2 pm

Hoe 64480 to 64775
 Wagon drill 65450
 13- 1-Breaker - 3 men - Bull Holes in orn H+80t
 10- Crane - 25400^F 27450
 Bulldozer - 15400^{out 10⁰⁰} - 32400 - 10⁰⁰ Road 56400
 18- Hand Labor 17400 to 24400 7 am 10⁰⁰
 21- Ex Anchor 11450

Bridge at 23450^F

Labor

1-Supter 10 2 Foremen 10 1 Field Eng 10
 3 Hoe Optics - 2 Crane Optics
 1 Welder 5 1 Andie 3 1/2 2 CS
 1 Oiler 5
 5 Drillers 5 10 3 1/2
 2 Bulldozers 10 5 1 Truck Driver 5
 2 Oilers 5
 13 Laborers 5
 15 " 5 10 3 1/2
 3 " 5
 31 Total 57 Man

Kasper 3 1/2

Dennis - Thurston 4 1/2

6-11-36 / Jam 7pm

Hoe 66+75 - 68+15 down 5pm

Wagon Drill at Hoe

Crane 22+00 - 27+50

Bulldozer - 95+00 - 99+00 widening road

Hand Labor - Rough Grade 22+00 - 26+00

1 Man Ex. anchor 11+50 PM

Bell Hake 11+00 - 16+50

Hoe - Wagon Drill - Sta camp - 262 Comp
 Candy wagon - Dumper - Crane - Mixer
 Bulldozer - Breaker - 3-7H - Pump

6-11-36

AM Distribution

Ball Holes 11500-13500 2 Lab

Rough Grade 5 Laborer - 1-J.H. Driller

Chain Rock - Crane and operator

4 Laborer

Bulldozer 2 shifts on road widening 95F-99F

Welder - 2 Lab. on air line etc

PM

Rough Grade

Crane Operator - 1 Laborer - 1 Driller 1 J.H.

Ball Holes - 4 Lab 1 Driller 1 Breaker

1 Lab on anchor Ex

Hoe crew per shift

1 Operator

1 Aker

1 Bottom man

1 Driller

1 Powderman

2 J.H.

6-12-36

AM

Ball Holes 3 1/2 Lab - 1 Breaker op - 1 1/2 Driller

1 J.H. 1 Breaker

Rough Grade

6 Lab 1 Lab & Tr Dr

Chain Rock -

Crane Operator - 4 Laborer

Bulldozer - 2 shifts Level road 95700-99700

PM

Ball Holes 3 Lab - 2 Driller 1 Breaker - 1 J.H.

Rough Grade 7 Lab 5-103

Chain Rock

1 Crane 1 Operator 4 Laborer

6-12-36

mine 762
 station 769
 Building 62

Labor

1-Supter 10 2 Foremen e 10 1 Field Eng e 10
 3-Hoe Opres 5 2-Crane e 5
 1-Wadere 5 - 3 Pradimine 5 1 oiler e 5 14
 6 Drillers e 5 1 e 3 2 Bulldozers 5 1 Tractor 10
 13 Labor e 5 1 e 8 14
 16-Labor e 5 1 e 2 1 e 3 18
 5-Labor e 5
 34

Kaspar - 2¹⁰pm

6-12-36

4am-7pm

Hoe 68+15 ← 72+05

Wagon Drill at Hoe

Crane 19+00 to 22+50

Bulldozer - Road 56+50F - 99+00F

Hand Labor - Bell Hole - 14+00 to 16+80

Hand Labor Rough grade - 24+00 to 28+00

Hoe - Wagon Drill - 3TH - 1 Breucker - 260 Camp

1 Pump - Mixer - Dump Trk - Candy Wagon

Bulldozer - Ford Crane

6-13-36

Labor

1-3upter 2 Foremen @ 10 1-Pull Engine 10
 3-Hoe Sptr @ 5 2-Crane sp @ 5
 1-Welder @ 5 2-Pudimon @ 5 - 10 5 1/2
 1-Officer @ 5 14
 4-Drivers @ 5 1 @ 5 1/2 1 @ 1 1/2 1 @ 3
 2-Bulldozers @ 5 1-Trencher 3 1/2 10
 2-Officer @ 5
 10-Laborers @ 5 1 @ 2 @ 4 1/2 1 @ 6 1/2 1 @ 8 16
 13- " @ 5 1 @ 2 @ 4 1/2 1 @ 8
 1 @ 1 1/2 1 @ 1 - 1 @ 6
 5-Laborers @ 5
 26

J. W. W. 7^{am}Kasper 12^{am}✓ 6-13-36 Jace 7^{pm}

Hoe 72+05-75+50
 Wagon Drill at Hoe
 Bulldozer - road 56+50 to dam. spoil bank 13-34
 Crane - 32+50 - 21+00
 Hand Labor Bell Holes - 14+50 - 20+00
 Hand Labor - Rough Griddle 21+00 - 25+50

✓
 Hoe-Mixer-Pump - 3-H 1 Breaker
 1-Ste. Camp - 1-260 Camp - 1-Wagon Drill
 1-Candy Wagon - 1-Dump Truck

6-13-36

Labor Dist

AM

Bell Holes 13 Labors 1 Driller 1 Breaker

Rough Grade 1 Tractor 1 Driller 1 J.H.

Chaining Rock 1 Crane 1 Op^{er} 6 Labors

PM

Bell Holes 8 Lab 1 Driller 1 Breaker

Rough Grade

Chaining Rock 1 Crane & Op^{er} 3 & 3

1 Driller 1 J.H.

6-15-36

Start

Labor Dist

AM

Bell Holes 1 Lab. Trk Driver 9 Lab

Chaining Rock

1 Crane & operator

5 Labors

Rough Grade 1 Driller 1 J.H.

1 Welder 2 Helpers

PM

Rough Grade 1 Driller 1 J.H.

Chaining Rock

1 Crane 1 operator

5 Labors

Bell Holes 8 Lab

6-15-36

✓

Labor

1-Supt @ 10 2 Foreman @ 10 1 Field Eng 10
 3 Har. Op @ 5 - 2 Crane @ 5
 1 Welder @ 5
 1 Bulldozer @ 7 1 @ 5
 1 Driller @ 3 1/2 3 @ 5 16
 1 Driller @ 5
 1 Miller @ 5 3 Pndrmin @ 5 2 @ 5
 1 Truck driver @ 3 1/2 1 Payroll clerk @ 5 9
 20 Labor @ 5 1 @ 5 1/2 1 @ 3 1/2 22
 10 Labor @ 5 1 @ 7

JNW - 11 am ✓
 Kasper - 1 pm ✓

6-15-36

4 am 7 pm ✓

Hoe 75+50 - 76+50
 Wagon Drill at Hoe
 Bulldozer - on road spoil Bank and Pipe Tracer
 Crane - 21+00 - 27+50
 Bell Holes 14+50 to 21+25
 Rough Grade - 21+00 28+00

✓ Hoe down 5³⁰ am - 2³⁰ pm Cable and
 bucket repair ✓
 Down @ 3³⁰ pm cable
 Bulldozer down 3³⁰ pm. Tractor off

Loaded wheelbarrows out for
valley job.

Hoe - Wagon Drill - Sta. Camp 2600
~~2 JH~~ - 1 Crane - 2 JH 1 Pump
 1 Mixer 1 Candy Wagon 1 Dump

6-16-36

Labor

1 Supter	2 Foremen @ 10	1 Field Eng @ 10	
3 Hoop apt @ 5	2 Crane apt @ 5		
1 welder @ 5	2 Bulldozers @ 5		
3 Drillers @ 5		15	
1 Driller @ 5	1 laborer @ 5	1	
3 Powdermen @ 5	2 rollers @ 5	1 Truck @ 5	9
22 Laborers @ 5			22
13 " " @ 5	10 5' @ 20	20 2' @ 10	17
<u>35</u>		20	<u>63</u>

Kasper 11⁰²KDP 4³⁰

✓ 6-16-36 4am 7pm

Hoe	76+50	to	83+00
Wagon Drill	at	Hoe	
Bulldozer	spoil bank	17+00	32+50
Crane	27+50		29+00
Bell Hole	21+25	-	28+75
Rough Grade	28+00	-	24+00

Hoe - Wagon Drill - 260 Comp - Sta Comb
 Candy Wagon - Ford Crane - Dumpster
 Pump - Mixer - B. J. H.

Told Manwaring and Hines that what is
 required is a tight, firm permanent
 ditch bottom and that the method
 for getting it is their problem

6-16-36

Dist

AM

Bell Holes 12 Lab
 1-JH - 1 Driller
 Rough Grade - 3 Lab
 Crane 1 opt 4 Lab

PM

Bell Holes

Rough Grade
 1 Driller - 1 JH 3 Lab
 1 Crane 1 opt 3 Lab

Bell Holes 5 Lab

6-17-36

DistLam
7 pm

AM

Fine Grade 3 Lab

Rough Grade

2 Lab

1 JH - 1 Driller

1 Crane - 1 opt 5 Lab

Bell Holes

1 Breaker - 1 Driller

8 Lab ✓

PM

Fine Grade 3 Lab

Rough Grade

2 Driller 1 JH 1 Breaker ✓

1 Crane - 1 opt 6 Lab

Bell Holes 5 Lab ✓

6-17-36

✓

Labor

1-Supte 10 2 Foremen @ 10 1-Field Eng @ 10
 3-Hoe Opth @ 5 2-Crane Opth @ 5
 1-Welder @ 5 2-Bulldozers @ 5
 3 Drillers 15
 3 " @ 5 1-Hiller @ 5 3-Ardaman @ 5
 2 Oilers @ 5 1-Trucker @ 3 1-Payroll @ 5 11
 20-Labors @ 5 20
 18- " @ 5 1 @ 2 1 @ 4 20

Kasper 3 3/4

Pyle and Party 3 3/4

6-17-36

Hans 7 PM

Hoe 83+00 - 86+40
 Wagon Drill at Hoe
 Bulldozer: Spoil Bank - and at Hoe
 Crane 29+00 to 32+00
 Ball Hoken 28+00 to 31+25
 Rough Grade - 32+00 to 23+00
 Fine Grade 17+25 - 16+50 not complete

Hoe-Wagon Drill - 3 1/2 H. 1 Breaker
 1-sta Comp - 1-260 Comp. 1 Crane
 1-Candy Wagon - 1-Dump Truck
 1-Pump - 1-Mixer

6-18-36 ✓

Labor

1 Supt @ 10 2 Foremen @ 10 1 Field Eng @ 10
 3 Intros @ 5 2 Cranes @ 5
 1 Wildcat 2 Bulldozers @ 5
 3 Drillers 1 @ 5 14
 3 Drillers 1 @ 5 1 Payroll @ 5
 3 Pandums @ 5 2 @ 5 1 @ 5
 16 Laborers @ 5
 17 " @ 5 1 @ 3 1 @ 2 1/2
 2 " @ 5 2 @ 3 1 @ 4 1/2
 35

Typ. 11. 7:30 am
 16 as per 1 1/2 pm
 Hy att 2 pm

✓ 6-18-36

Ham 7 pm

Hoe 86+40 88+50
 Wagon Drill at Hoe
 Bulldozer at Hoe
 Crane 32+50 to 21+00
 Bell Hole 28+00 31+50
 Rough Grade 22+00 to 32+00
 Fine Grade 16+50 19+50

Hoe-Wagon Drill - 3 J.H. - 1 Breaker -
 1 Sta. Camp - 2 Co. Camp - Candy Wagon
 Dump Truck - Crane - Pump
 Mixer

AM

Bell Hole

2 Lab ✓

2 Lab ✓

Rough Grade

1 JH 2 Drills 1 Breaker

1 Crane 1 cpl 2 Lab 1 Lab-Tr-Dr

Fine Grade 3 Lab ✓

PM

Rough Grade

1 JH 1 Driller

1 Crane 4 cpl

16 Labers

Fine Grade ✓

3 Labared

Fence 1 Labared ✓

Dist

AM

Fine Grade 5 Lab ✓

Rough Grade

6 Lab

2 Drills 1 JH 1 Breaker

Chain Rock

1 Crane 1 cpl

5 Lab 17 Labers Lab

1 Crane 2 Kipper - 1 Fines

PM

Chainrock 1 Crane 1 cpl 5 Labared

Rough Grade 10 Lab 1 Driller 1 JH

Fine Grade 3 Labared

1 Crane 1 cpl

1 Crane 1 cpl

6-19-36

Labor

1 Supt. @ 10 2 Foremen @ 10 1 Full time @ 10
 3 Iron @ 5 @ 5 = 2 crane @ 5 1 Welder @ 5
 2 Bull @ 5 4 Bull @ 5 16
 3 " @ 5
 1 Payroll @ 5 2 Production @ 5 = 10
 2 Oil @ 5 1 Truck @ 5 10
 19 Labor @ 5 19
 15 " @ 5 1 @ 1 16
 3 " @ 5

J.W.K. 7¹⁵
 Kasper 1^{pm}

6-19-36

4am 7pm

Hoe 88+50, - 90+75
 Wagon Drill at Hoe
 Crane 24+00 - 32+50
 Bell Hole No.
 Rough Grade 22+00 32+00
 Fine Grade 19+50 22+75
 Bulldozer Road at Hoe Spark Bank 2+00

Hoe-Wagon Drill. Sta Camp - 260 Cam
 3 J.H. 1 Breaker Candy Wagon.
 Dump Truck. Crane. Mixer Pump

6-20-36

Labor

1-Supt	10	2 Foremen	10	1-Field Eng	10	
3 Hoop	5	2 Cranes	5			
1 Bill	5	1 e	3			
3-Drill	10	4" ^{sup}	15			
2 "	5	1 e 4" ^{com}	10	10 lines		
1 Payroll	clerk	5		2 Pipe	men	5
2 Oil	ers	1		1-Trench	4" ^{1/2}	10
16-Labor	ers	1		10		17
13-		5		1	10	15
10-		5				10
<u>39</u>						
						Total 68

$$\frac{39}{195}$$

$$17 \frac{57}{15}$$

John 6³⁰am Dennis 4³⁰pm
 Kasper 1pm
 P.B. 2³⁰pm

Hoe 90+75 to 94+75
 wagon Drill at Hoe
 Crane 28+00 to 33+40
 Bulldozer - 32+50 - 17+00 9m shovel PM
 Rough Grade 28+00 33+40
 Fine Grade 22+75 26+80

Hoe-wagon Drill - 1 Sta. Camp 260 Camp
 3-J.H. 1 Breaker 1 Candy wagon
 1-Dump 1 Crane Mixer Pump

6-20-36

Dist

AM

Fine Grade 6-Labors

1-J.H. 1-Driller

Rough Grade

1-J.H. 1-Lab

8 Lab - 2 Drillers - 1 J.H. 1 B.M.

Crane - Opt 5 Labors

Fence 1 Lab

PM

Rough Grade

2 Driller 2 J.H. 1-Trdr

12 Lab

Crane - 10 Opt 5 Lab

Fine Grade

3 Lab 5

1 e 3

6-22-36

Dist

Bell Hole

0

AM

0

PM

Rough Grade - Crane - 10 Opt 6 Lab

1-J.H. - 10-11-16

AM

1-J.H. 1 Driller - 1 Lab

PM

Crane + Crew 10 Opt

AM

1 Opt - 5 Lab

PM

Fine Grade 6 Lab

AM

2 Lab

PM

Dump Truck - Driver - on road

1 Laborer on road

6-22-36 ✓

Labor

1 Supt @ 10 - 2 Foreman @ 10 1 Field Eng @ 10
 1 Hoe @ 8 105 2 Cranes 5
 1 Welder @ 5 - 2 Bulldozers 5
 2 Driller @ 5 13
 2 " " @ 5 104
 1 Gilmer 5 1 - Clarke 5 1 Pondimine 5 104
 1 Truck @ 6 2 Gilmer 5 10
 20 Lab @ 5 2 @ 1 1/2 22
 10 Lab @ 5 2 @ 1 1/2 104 101 20
 2 " " @ 5
 38

65 Min
 35 Super 40
 Direct 295
 335

Terry 7 am

Kasper 1 pm

Dennis 3 pm

Hoe 7 pm

1 Hoe 94+75 to 99+10 ^{100+10 min}
 Wagon Drill at Hoe
 Bulldozer at Hoe Am Spoil Bank ¹³⁺⁰⁰ 21+00 PM
 Crane - 26+00 to 35+50
 Rough Grade 28+00 to 37+50
 Fine Grade 26+10 to 28+60

Hoe 5 am - 10 am

10 am 6 pm

and drill too

all laborers and others worked full shift

Hoe Wagon Drill - Stackamp 26 Camp
 33 H - 1 Breaker - Bulldozer - Crane
 Pump-Mixer - Candy Wagon - Dump Trill

6-23-36

2-Farmers C10 1-Field Equip C10
 1-Hoe apt C7 1e6
 2-Crane ^{Small} e5 1-welder e7
 2-Bulldozer e5
 2-Drillers e5 17
 2-... C5 1e4 1-gilves
 1-Cleek e5 2-Powdermin e5
 1-TRUCK e4 2-Drillers 10
 16-Labs e5 1e5 1e3 18
 16-Labs e4 18
 2-Labs e5 2
 38

3 3/0
 17
 3 10 5
 2 10 5
 2 10 5

Turner 1 1/2
 Kaiper 1 1/2

6-23-36

4 am. 7 pm

Hoe 9910 to 10110
 Wagon Drill at Hoe
 Bulldozer Road and spoil bank
 Crane 30100 - 36100
 Rough. Equip 28100 to 41100
 Fine Equip 14000 AM.

Hoe. Wagon Drill. B.T.H. 1 Breaker
 sta. camp 260 camp - Crane ^{2nd}
 Candy Wagon. Sump Truck.
 mixer. Pump - Bulldozer

Dist

Rough Grade - Crane - 10 pft - 1 Driller - 1 JH - AM

17. Laborers

1 Driller - 1 JH - PM

13 Lab

1 Crane - 10 pft

Fine Grade None AM

2 Lab PM

Water - 1 JH - 1 Dr - 1 Lab AM

1400 - 2200 No PM

Bell Hoken 9 Lab 1 Driller 1 JH AM

1 Lab 1 1/2 JH PM

2400

Fine grade 1 Lab AM

Rough Grade 1 JH AM

1 JH PM

1 Lab - 2nd shift opening auger etcNote - Labor of 2nd shift on
clam shell fill - 3³⁰ pm

6-24-36

Label

2 Foreman 10 1 Field Engine 10
 1 Hoe 0 p 28 105
 2 Bulldozer 0 p 28 105
 2 Driller 05
 2 " 05 ^{swain} 10 4 1/2 9
 1 Oilers 10 cluxes
 2 Powdermen 05
 1 Tractor 05 (w/air) 10 10 0 10 0 0 5 10
 12 Labor 10 8 - Conitt - Bull Hole 12
 11 - 05 10 4 1/2 10 8 ^{or} 8 ^{pk} 13
 2 - 05 2
 1

263
 33
 278

Kasper 1¹⁰

Hoe 10 1 10 - 10 2 1 80
 Wagon Drill at Hoe
 Bulldozer at Hoe
 Tank Truck - 1 4 1 0 0 - 2 2 1 1 0
 Crane - Ford out no work
 Crane - P&H In Newark
 Hand Labor - Bull Hole - 2 9 1 0 0 - 3 2 1 5 0
 Fine Grade 3 1 1 5 0 - 3 2 1 5 0

Hoe - 2 JH 1 Breaker Wagon Drill - Sta Camp
 260 Camp Candy Wagon Dump Trk
 Tank Truck - Ford Crane - P&H Crane
 Bulldozer - Mixer - Pump

6-25-36

Labor

2-Foramen 310	1-Find Engine 10	30	
1-Hoe Op Ho 6	1c5	1-Crane 5	15
1-Driller 4 1/2	1c5- ²⁵	9 1/2	8
4c5	1c3	1-Oiler 5	28
1-Crane 5	2-Pwdmtr 5	15	
1-TRK Dr 6	1c1	7	
1-Oiler 4 1/2	1c5	9 1/2	13
9-Laborer 5	1c1 1/2	1c4 1/2	25 2 11
11-Lab 5	1c1 1/2	1c7	1c2
		55	14
3-Lab 5		15	3
<u>23</u>			<u>49</u>

$$\begin{array}{r} 232 \\ 11 \overline{) 253} \\ \underline{22} \\ 33 \\ \underline{33} \\ 0 \end{array}$$

Truck 7³⁰ am
 Kasper 1³⁰ pm
 Hyatt 2 pm

1400	102+80	to	104+46
Wagon Drill			55.75
Bulldozer			55.75
Rough Grade	34+00		37+00
Ball Holes	29+00		33+00
Fin Grade	None		
Water Grade	11+50		32+50
PH Crane	36+00	to	40+00

246.5
 237.0
9.5

Hoe - Wgn Drill - 3TH - 1 Breaker
 1 Bulldozer - Tank Truck - Dump Truck
 Candy Wagon - Sta Comp - 260 Comp
 Mixer - Pump - PH Crane

6-25-36

Dnt

Strip Pier 2 Lab AM

Water 1/2 in. Dr 1 Lab - 1 Tank Trk AM

Bell Hauls

6 Lab 1 Driller 1 JH AM

10 Lab 1 Driller 1 JH PM

Rough Grade

P.H. Crane 1 apt 10 lbs - 1 apt AM

1 Driller 1 JH 2 Lab PM

1 Crane P.H. 1 apt 3 Lab

Fine Grade

Dnt

²⁹⁺⁰
Bell Haul 1 JH - 1 Driller 4 Lab AM

Rough Grade 4 Lab AM

1 Crane apt 1 Driller 3 Lab AM

Fine Grade

1-Foreman 10	1051-FIDENG C 10	
1-Hoe Opt 28	1-Crane 24	
1-Driller 25	4-Driller 25	6
1-Oiler 24	pekas	
1-Pwdiman 25	106	
1-TRUCK 24	^{TANK} 103	10 rollers 11
9-Labs 5	104 1/2	10
12-... 25		12
5-... 5		5
	Total	44

278.12

2	0.70
1	1.40

PH Crane	36+50	40 40+00
Hoe	1	-104+40-105+75
Tank Wagon	33+50	-29+00
Ball Hala	29+00	-44+00
Rough Grade	33+00	-39+00

P+H. Hoe 3 day Tank Wgn - Dumb
Candy. Sta. 2 JH - 1 BKY - Pump
Mixer

6-27-36 6³⁰am 5pm
Lab

1-Foreman 10	1-Flt Eng 10	
1-Driller 5		3
2. . . 5	1-3	
1-Clk 5	1-Pwdman 5	
1-Trkr 5	1E1	
1-Griller 5		8
8-Labs 5	2 e2 1e1/4	11
9. " 5	1e2 1e7 1e7'b	12
5. " 5	1e2 1/4	6
<u>21</u>		40

193 5/1

Pyle - PB - 11 am
Kasper 11:5 amRough Grade 34+00 to 42+00
Fine Grade 17+85 to 38+00

105+75 - 107+5

1-P&H Crane - 2-J.H. 1-Blocker
1-Pump 1-Mixer - 1-Dump Trk
1-Candy-wagon - 1-Tank Trk
1-Sta. Camp

6-27-36

Dist

A.M. Rough Grade 36 hrs - 4 tons

7 Lab - 1 drilled

all other fine grade back

6-29-36

Dist

Fine Grade 3 Lab

PM

Bell Holes - 1 J.H. Driller 3 Lab

None

Rough Grade 1 Crane - 10 pty

Balance of labor

1 Crane 10 pty

1 J.H. - 1 Driller - 3 Lab

1 Lab

2 Lab

6 Lab

2 Lab

2 Lab

1 Driller 1 Breaker

6-29-36 ✓

Labor

1-Foreman @10-1-Field Eng @10-1-Clk. 5
 1-Crane Op @6-1@5
 3-Drillers @5-1-Prdrman @5
 1-Tr. Dr @5 1/2 1@1
 1-Oiler @5 1/2 1@6
 13 Labor @5-1@5 1/2-3@6-1@7 20
 9.. @5-1@5 1/2-1@4 11
 77 7

Tanker RVN-9 am

Dennis 4:20 pm

6-29-36 6³⁰ am 6 pm 147

P/H Crane R.G 35+00 - 41+00
 Rough Grade 35+00 to 53+00
 Bell Holes 35+00 to 43+00
 Fine Grade 39+00 to 43+00

107+50

140+50

1-Crane - 2-TH - 1 Breaker 1 Sta Cent
 1 Tank Wagon - 1 Dump Box
 mixer - Pump

6-30-36

Labor

2. Formene 10 1-Fiddling 10 1-clam 5
 1 Clam 5 1/2
 4-Drillene 5 1e 6 1-Andimon 25
 1-TKDi 2 1e 1 13
 1-Oiler 2 5 1/2
 16-Labels 1e 5 1/2 18
 7-Labels 1e 5 1/2 1e 6 1e 4 10
 7

Tracy 1 pm F.O.P. 2 pm
 Kaspar 1 pm Ellis 2 pm

6³⁰ am 5 pm

PH 39+00 - 43+00 R.G.
 Hand Label R.G. 39+00 - 55+00

PH down. 3³⁰ pm

110+50 - 114+00

Crane. 2TH. Comp. Dump for
 Mixer Pump Tank for

6-30-36

Dist

Rough Grade 1-PHCrane 1-opt 1-oiler

1-Truck-1-Dr 1Lab Haul D.E

1-Driller 1-Breaker 4-Lab 2-Lab 2-Lab

1 " 1-JH 3Lab

Bulldozer on roads AM

PM

5-Lab-1-Driller on roads PM

Balance Rough Grade

Rock 43+10?

7-1-36 ✓
Labor

2 Foremen	10	1 Motor Engine	10	1 Crane	5	4
2 Crane Op.	6					2
1 Driller	3	105	1 Andirone	5		4
1 Trk. Drag	6	101				7 1/2
6 Lab.	6	105 1/2	105	302		11
5 Lab.	6	505 1/2		102	103	12

Trk. 3 pm 7 am
Kasper 4 pm

All Rough Grade 38 to 2 - 43 to 50

Laid off all men except crane
gang

154

7-1-36

Dist

all rough grade

7-2-36

Dist

155

all rough grade

7-2-36 ✓

Labor

3. Farm tractor	1. Field Engine	10 hrs	5
2. Crane	Optic 6	10	5
1. Drilled	30.6	10	5
1. Oil rig			8
2. Powder mill	6.6	1. Truck	5.5
		10	18
1. Oil rig	6		
7. Labor	204	1/2	10
5. Labor	205	1/2	10
12			38

Thru 7 am

Kasper 2 pm Shrapshire 2 pm

Hyatt 2³⁰ pm Dennis-Thurston 2⁴⁵ pm

7-2-36 4 am 9 pm ✓ 157

All work Rough Grade

Crane - 38 hrs to 46 hrs

Hand Labor 38 hrs to 46 hrs

P.H. 5th Camp - 2. J.H. 1. Blaker. 1. Dumps
1. Tank - Truck. Pump

7-3-36 ✓

3. Farmine 10 1-Field Engine 10 Kelkes
 3 Crane. op. 6
 1-Drill 8 107 106 104
 1-Gilre 8 2 Pwdmenc 8
 1-Tredre 5 106 17
 1-Gilre 6
 5-Label 8 207 306 105 102 12
 2-Label 8 107 506
 1- 07 104 202 12

 41

Kasper 1³⁰Hyatt and party 2^mDennis 2³⁰

7-3-36 ✓

4^{am} 9^{pm}

Crane - 49 - 5700 P.H.
 Hand Laker 3900 5700

all rough Grade

P.H. Cran

7-6-36

Labor

2 Foremen @ 10	1 Field Eng @ 10	4-cke5	4
1 crane op @ 5	10 7	10 8	3
2 Driller @ 5	10 3		3
1 @ 10 @ 7	1 @ 10 @ 5	10 7	3
1 Tractor @ 6	10 7		2
2 Lab @ 5	4 @ 7	1 @ 7	2
			<u>26</u>
			41

Truck 8:00 am
Kasper 12 pm
Dennis 2 pm

7-6-36

4 am 7 pm

PTH Crane widen road 56+507
Ford crane 44+00 - 47+00
Hand Labor - 44+00 - 47+00
All rough grade
Dump Truck haul from
Ford crane to dump at
river crossing to prairie camp

Dump Trk - Tank Truck - Mixer
Pump PTH - Ford - Camp - 23H
1 Broken

162

163

To be excavate 6" below 165
Grade and refitted

5-28-36

Memo 5-28-36
11+75 to 12+10 (2) ✓
12+13
West end of valve box to 14+00 (3) ✓
17+50 to 18+00 (5) ✓
20+50 to 21+25 ✓
25+50 to 27+75 ✓
29+00 to 30+25 ✓

Memo
6-16-36

14+00 to 14+10 + ✓
11+26 to 11+34 (1) ✓
19+35 to 19+50 ✓
21+25 to 21+35 ✓

Memo
6-19-36

28+75 to 29+00 ✓
31+35 to 32+70 ✓
34+00 to 34+40 ✓
35+30 to 35+40 ✓
35+75 to 35+95

Memo
7-2-36

38+25 to 40+00
43+00 to 57+00

6" Blow off #36
 30. x 24 valve 13+00
 Anchor 11+50
 Wye 17+00
 4" Blow off 23+00

Grades

Level to 11+50
 11+50 to 12+00 +26.6%
 12+00 to 12+50 +25%
 12+50 to 17+00 -9.0%
 17+00 to 21+00 -0.20%
 21+00 to 23+00 -2.20%
 23+00 to 25+50 +0.40%
 25+50 to 26+50 +3.30%
 26+50 to 28+00 +0.47%
 28+00 to 29+00 +3.0%
 29+00 to 30+00 +4.5%

168

169

Date	Per	Antenna		S. axcent	
		GrA	Zone	Grout	Cont
19	35	1	38	2	76
Dorvik				1	
21	36				
	37	1	28	2	56
Dorvik				1	
27	36				
28	Floor				
29	Dark blue				

ants 5th

out 11th

out 13th

Date	Pia	Batena		Sax Cement		
		Grat	Cano	Grat	Cano	
5-9	21					3.30
	22	1	16 ^{1/2}	2	33	3.34
5-9	21-22	1/2	1 1/2	1	17	
5-11	23	1/2	18 ^{1/2}	1	37	
Donab				1/2		
5-11	24					3.51
	25	1/2	20 ^{1/2}	1	41	3.68
Donab				1		7.19
5-13	26					3.72
	27					2.83
	28	1 1/2	32	3	64	3.87
Donab				1/2		11.42
5-14	29					3.86
	30	1	21 ^{1/2}	2	43	3.99
Donab				1/2		7.85
5-15	31					4.11
	32	1 1/2	35	3	70	4.18
	33					4.24
Donab				1		1.53
5-16	34	1/2	12	1	24	4.35
Find			16 ^{1/2}		312	
						53475

Gout Dawak

Date	Pier	Batch		Sax Corn		# Sand	# 3/8	# 3/4	# 1/2	Remark
		Grout	Cone	Grout	Cone					
4-29	1-4A	2	1 1/2	4	20					
4-30	2	1	3	2	6	1.04 yds				Strip #1- 5-2- No. 00
	3	1/2	3	1	6	1.04				strip 5-2
5-1	4	1/2	3	1	6	1.15 yds				" 5-2
	5	1/2	3 1/2	1	7	1.19				New mixer man waste 3 Sax Corn
5-2	6	3/4	3	1 1/2	6	1.25				1/2 batch Grout - 1 Cone strip- 5-4
	7	1/2	3 3/4	1	7 1/2	1.31				strip- 5-6
	8	1/2	3 1/2	1	7	1.35				5-6
5-4	9	1/4	4	1/2	8	1.44				5-6
	10	1/4	5 1/2	1/2	11					
5-6	11					1.54				
	12	1	11	2	22	1.54				strip- 5-9
	13					1.62				
	14					4.70				
						1.70				
5-7	15	1	16	2	32	1.76				
	16					1.84				
	17					1.84				
		8 3/4	10 3/4	17 1/2	141 1/2	1.84				
5-6	14-15 16-17			1/2						Grout to webs
5-4	11-12 13			1/4						14-15-16-17
4-25				1/2						Downs - 11-12-13
		8 3/4	10 3/4	18 3/4	141 1/2					A-1-2-3-4-5-6-7-8
5-8	18 19 20	1 1/2	16	3	32	1.86				
						1.94				
						3.24				704

⊕ Dist from wall Plugs

R=N	L=S.
#1- 9.70	9.89
#2- 8.83	8.76
#3- 8.82	8.90
#4- 8.94	8.88
#5 9.16	8.86
#6 9.26	9.11
#7 9.20	9.21
#8 9.23	9.35
#9 9.51	9.67
#10 5.9	10.14
#11 9.66	9.52
#12 9.76	9.35
#13 9.80	9.48
#14 9.82	9.62
#15 9.90	9.66
#16 9.86	9.72
#17 9.92	9.81
#18 9.93	9.95
#19 9.96	9.91
#20 11.97	11.94
#21 11.82	12.16
#22 11.73	12.32
#25 12.69	12.50 ⊕ cradle split of angle
#36 33.2	9.19
#37	8.92

Loose measure

1 1/2"
 3/4 crushed
 3/4 Gravel
 3/8 crushed
 Sand

MIX by J.W.W. 4-28-36

Cement	2-sax		188 #
② Sand	5.3 cu feet	82 ¹	435 #
① 3/8	2.0 cu ft	78 ²⁵	158 #
① 3/4	2.5 cu feet	Half and half	232 #
② 1/2	4.8 cu feet ✓	82.25	394 #
14 gal	water		

3/4 Crashed 79 #

3/4 Gravel 93

$$\begin{array}{r} 158 \\ 232 \\ \hline 394 \\ \hline 784 \end{array}$$

101 sax Golden Gate Cem. in pile

2 " " Form pile

4-30 Reject 11 wet sax

4-30 " 2 " "

5-6 " 3 " "

$$\begin{array}{r} 79 \\ 25 \\ \hline 395 \\ \hline 158 \\ \hline 197 \end{array}$$

$$\begin{array}{r} 833 \\ 122 \\ \hline 333 \\ 232 \\ \hline 1166 \\ \hline 237 \\ \hline 255 \\ 15 \\ \hline 244 \end{array}$$

- As a guide - State Spec
1935 limits as shown on
- (2) graph forms
- (1) Passing
- (1) $3/4$ 95-100% Max 10% passing $3/4$
- (2) $1/4$ 65-75
- 14 #3 33-43
- #10 20-30
- $3/4$ #20 11-20
- $3/4$ #30 6-12
- #40 3-8
- #80 0-4
- #200 0-2

Mixer

Rex 14-5

20 gal TANK

7-6-30
206-91194

44"
conc 13"
13"

2 sample
4374
13"



Standard Miniature Blank Book

No. 695	$6\frac{1}{8} \times 4\frac{1}{4}$	180 Pages Units
No. 695 $\frac{1}{2}$	$7\frac{1}{2} \times 4\frac{3}{4}$	180 Pages Units
No. 696	$8\frac{3}{8} \times 5\frac{1}{2}$	180 Pages Units

Made in the Following Rulings

Journals, Day or Cash Books, Double S and Cts.
S. E. Ledgers Double S and Cts.
Double Entry Ledgers
Records with Faint Lines only

When ordering give Number and Rulings desired

Made in U. S. A.

6-2-206	90459	6-17-90811
6-3-206	90479	6-18-90849
6-4-206	90486	6-19-90861
6-5-206	90489	6-20-90885
6-6-206	90550	6-22-90924
6-8-206	90515	
6-9-206	90581	
6-10-206	90594	
6-11-206	90606	
6-13-206	90679	

&PN: 695½

Jarrett

1/2 32/0

3/4 18/0

3/8 10/0 9

Send 36/0

765
65

11590 60

006 NUL 900

476-5-7 aw 32245

476-5-9 aw 32254

4-21 32245

4-21 32245

476-5-11 32256

208-5-12 90188

208-5-13 90191

206-5-14 90195

206-5-15 90200

485-5-16 42088

204-5-16 90264 in town to town is am

204-5-18 90267

206-5-19 90271

206-5-20 90276

206-5-21 90283

206-5-22 90287

206-5-23 90292

206-5-25 90298

206-5-26 90299

206-5-28 90303

206-5-29 90306