

T&R Mechanical Contractors, Inc.

4013 Taylor
El Paso, Tex. 79930

13 February 1981



T&R Mechanical Contractors, Inc. intends to man the Plant 33 Isolation project with a work force of one foreman, five qualified welders and an equal number of pipefitters and/or apprentices. Laborers will also be provided as necessary. Addition or subtraction of workers will be made as progress warrants.

- Feb 17 - Familiarize men with job, set up fab area with Chevron representative, transport material, begin fuel gas from knockout drum.
- Feb 18 - Continue fg ^{from} to ko drum, begin fg to ko drum, begin jacket water, transport material, ditchwork for jacket water.
- Feb 19 - Continue fg from ko drum, continue fg to ko drum, continue jacket water, ditchwork for jacket water.
- Feb 20 - Continue fg from ko drum, continue fg to ko drum, continue jacket water, begin instrument air, begin 110# steam.
- Feb 23 - Continue fg from ko drum, continue fg to ko drum, finish jacket water, continue instrument air, continue steam.
- Feb 24 - Complete fg from ko drum, continue fg to ko drum, continue instrument air, continue steam.
- Feb 25 - Complete fg to ko drum, finish instrument air, continue steam, completely do condensate from water jacket cooler.
- Feb 26 - Finish steam, test up to tie in fg (2 lines) and instrument air, begin condensate to water jacket cooler.
- Feb 27 - Continue condensate to water jacket cooler, begin utility air, test steam to tie in, begin nitrogen.
- Mar 2 - Continue condensate to water jacket cooler, continue nitrogen, continue utility air, begin hydrogen sulfide, begin plant 38 product.
- Mar 3 - Continue condensate to water jacket cooler, continue nitrogen, continue utility air, continue hydrogen sulfid, continue plant 38 product.
- Mar 4 - Finish condensate to water jacket cooler, continue nitrogen, finish utility air, continue hydrogen sulfide, ~~begin natural gas~~, continue plant 38 product.

Phone: (915)-562-8444 or (915)-566-7194

- Mar 5 - Begin sulfide chemical injection, finish nitrogen, finish hydrogen sulfide, begin natural gas, continue plant 38 product.
- Mar 6 - Continue sulfide chemical injection, begin feed to plant 38, continue natural gas, continue plant 38 product.
- Mar 9 - Cold cut and move ko drum, tie in instrument air, tie in jacket water, tie in steam, prepare for concrete foundation.
- Mar 10 - Tie in both fg lines, finish steam and jacket water, test, prepare for concrete foundation.
- Mar 11 - Continue plant 38 product, finish sulfide chemical injection, continue natural gas, continue feed to plant 38, pour foundation.
- Mar 12 - Finish natural gas, finish plant 38 product, continue feed to plant 38.
- Mar 13 - Finish feed to plant 38, and miscellaneous.

T&R MECHANICAL CONTRACTORS, INC.
4013 Taylor
El Paso, Texas 79930

PIPE WORK - PLANT 33 ISOLATION
Contract # C-15-022-81

CHANGE 1

- A) 2/26/81 - Add dummy leg to fuel gas line
1 welder, 1 fitter - 2 hrs ea regular time @ \$16.28/hr \$ 65.12
- B) 3/ 6/81 - Add to Jet-A desulfurizer feed, 120' of 4" pipe and
necessary fittings
1 welder, 1 fitter - 6 hrs ea regular time @ \$16.28/hr \$ 195.36
- C) 3/12/81 - Reroute fuel gas from knockout drum to miss conduit
bank as instructed by engineer
1 welder, 1 apprentice (6th period) - 3.5 hrs ea @
1 1/2 overtime (3.5 hrs x \$22.21/hr = \$77.74
3.5 hrs x \$17.00/hr = \$59.50) \$ 137.24
- D) 3/12/81 - Begin reroute of fuel gas from knockout drum to miss
existing platform
1 welder, 1 apprentice (6th period) - 2 hrs ea regular time
(2 hrs x \$16.28/hr = \$32.56
2 hrs x \$12.54/hr = \$25.08) \$ 57.64
- E) 3/13/81 - Reroute fuel gas to knockout drum to miss existing platform
and reroute relief from knockout drum for tie in to knockout
drum drain
1 welder, 1 fitter - 6.5 hrs ea @ 1 1/2 overtime (\$22.21/hr) \$ 288.73
- F) 3/13/81 - Reflange hydrogen sulfide sour gas line in five places
using fresh air equipment and resteam as required by
operators and test fuel gas due to delay caused by
rerouting fuel gas lines as instructed by engineer
3 fitters, 6 hrs ea @ 1 1/2 overtime (\$22.21/hr) \$ 399.78
- G) 3/13/81 - Replace 3/4" valve on existing line at hydrogen sulfide
tie in
1 welder, 1 fitter - 1 1/2 hrs ea regular time @ \$16.28/hr \$ 48.84
- H) 3/13/81 - Add supports on 1" and 2" condensate lines and on 3/4"
instrument air line
1 welder, 1 fitter - 4.5 hrs ea regular time @ \$16.28/hr \$ 146.52
- I) 3/16/81 - Add supports on 6" steam line, 1" condensate line, and
3/4" instrument air line
2 welders, 1 apprentice (2nd period), 1 foreman fitter,
4 hrs ea regular time
(8 hrs x \$16.28/hr = \$130.24
4 hrs x \$ 9.53/hr = 38.12
4 hrs x \$17.33/hr = 69.32) \$ 237.68

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PIPE WORK - PLANT 33 ISOLATION
Contract # C-15-022-81

Change 1

Page 2

- J) 3/16/81 - Begin dismantle of 6" relief loop station by gas and oil control house
 2 welders, 1 apprentice (2nd period), 1 foreman fitter -
 2 hrs ea @ regular time
 (4 hrs x \$16.28/hr = \$65.12
 2 hrs x \$ 9.53/hr = \$19.06
 2 hrs x \$17.33/hr = \$34.66
 Boom truck - no charge \$ 118.84
- K) 3/17/81 - Dismantle 6" station by gas and oil control house
 2 welders, 1 apprentice (2nd period), 1 foreman fitter -
 3 hrs ea @ regular time
 (6 hrs x \$16.28/hr = \$97.68
 3 hrs x \$ 9.53/hr = \$28.59
 3 hrs x \$17.33/hr = \$51.99
 Boom truck - no charge \$ 178.26
- L) 3/17/81 - Add supports for new lines at north end of new pipeway
 1 welder, 1 foreman fitter - 2 hrs ea @ regular time
 (2 x \$16.28/hr = \$32.56
 2 x \$17.33/hr = \$34.66) \$ 67.22
- M) 3/19/81 - Add 3/4" yard air and repair yard air valve
 2 fitters - 6 hrs ea @ regular time @ \$16.28/hr \$ 195.36
- N) EQUIPMENT RENTAL AND FUEL CHARGES

Welding machines

3/13/81	10 hrs		
3/16/81	4 hrs	Rental 18 hrs x \$.86/hr	\$ 15.48
3/17/81	2 hrs	Fuel cost 18 hrs x \$.70/hr	\$ 12.60
3/19/81	2 hrs		
	<u>18 hrs</u>		

Oxygen-Acetylene Rigs

3/13/81	10 hrs	Rental 14 hrs x \$.38/hr	\$ 5.32
3/16/81	4 hrs		
	<u>14 hrs</u>		

Pickup truck

3/13/81	10 hrs		
3/16/81	4 hrs	Rental 19 hrs x \$.82/hr	\$ 15.58
3/17/81	5 hrs	Fuel cost 19 hrs x \$.70/hr	\$ 13.30
	<u>19 hrs</u>		

TOTAL, CHANGE 1

\$2,198.87

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CHANGE 2

3/7/81 - Overtime pay for Saturday worked due to rain-outs during week.

<u>Classification</u>	<u>O.T. hrly - Reg. hrly Rate</u>	<u>No. of Men</u>	<u>Hrs. Each</u>	
General foreman	\$6.48	1	8	\$ 51.84
Fitter foreman	\$6.34	1	8	\$ 50.72
Journeyman	\$5.93	13	8	\$616.72
Apprentice (1st period)	\$2.97	1	8	\$ 23.76
Apprentice (5th period)	\$4.16	2	8	\$ 66.56
Operator	\$4.96	1	8	\$ 39.68
Operator	\$4.96	1	6.5	\$ 32.24
Laborer	\$3.42	1	8	<u>\$ 27.36</u>
				\$908.88

Change

Contract Number C-15-022-81

Change Number 1

Date MARCH 27, 1981

Company CHEVRON USA INC

Contractor T & R MECHANICAL CONTRACTOR, INC.

The requirements of the above-designated Contract are changed as follows:

1. ADD DUMMY LEG TO FUEL GAS LINE 65.12
2. ADD 120 ft OF 4 INCH PIPE TO PLT 38 FEED 195.36
3. REROUTE FUEL GAS FROM KNOCKOUT DRUM
NEAR CONDUIT 137.34
4. REROUTE FUEL GAS FROM KNOCKOUT DRUM
NEAR PLATFORM. 57.64
5. REROUTE FUEL GAS TO KNOCKOUT DRUM TO MISS
EXISTING PLATFORM AND REROUTE RELIEF
FROM KNOCKOUT DRUM FOR TIE IN TO DRAIN 288.73
6. REFLANGE H₂S SOUR GAS LINE IN 5 PLACES 399.78
7. REPLACE 3/4" VALVE ON EXISTING LINE AT
HYDROGEN SULFIDE TIE IN 48.84

COMPANY and CONTRACTOR agree that CONTRACTOR's compensation shall be adjusted as follows: INCREASE

\$1192.81 (ONE THOUSAND ONE HUNDRED NINETY-TWO and 8/100 Dollars)

This adjustment covers the entire compensation for the Change set forth above and includes, but it is not limited to compensation for all engineering, material, equipment, subcontracts, labor, overhead, profit, changes in scheduling and delays resulting, directly or indirectly, from the Change.

CONTRACTOR

By R. Myer

COMPANY

By L. R. Shanks / C. R. P. 3/30/81

Work Completed: Signed _____ Date _____

Invoice No. _____ Date _____ Amount _____ Date Rec'd. _____

Charge Account No. _____

Charge Job No. _____

Remarks _____

CHEV B8 5823

Change

Contract Number C-15-022-81

Change Number 2

Date MARCH 30, 1981

Company CHEVRON U.S.A. INC.

Contractor T & R MECHANICAL CONTRACTOR, INC.

The requirements of the above-designated Contract are changed as follows:

1. ADD SUPPORT ON 1" AND 2" CONDENSATE LINES AND ON 3/4" 146.52
INSTRUMENT AIR LINE
2. ADD SUPPORTS ON 6" STEAM LINE, 1" CONDENSATE LINE, AND 237.68
3/4" INSTRUMENT AIR LINE
3. DISMANTLE 6" RELIEF LOOP STATION BY GAS AND OIL 118.84
CONTROL HOUSE
4. DISMANTLE 6" STATION BY GAS OIL CONTROL HOUSE 178.26
5. ADD SUPPORTS FOR NEW LINES AT NORTH END OF 67.22
NEW PIPEWAY
6. ADD 3/4" YARD AIR AND REPAIR YARD AIR VALVE, 195.36
7. EQUIPMENT RENTAL AND FUEL CHARGES 62.28

COMPANY and CONTRACTOR agree that CONTRACTOR's compensation shall be adjusted as follows: INCREASE

\$1006.16 (ONE THOUSAND - SIX and 16/100 DOLLARS)

This adjustment covers the entire compensation for the Change set forth above and includes, but it is not limited to compensation for all engineering, material, equipment, subcontracts, labor, overhead, profit, changes in scheduling and delays resulting, directly or indirectly, from the Change.

CONTRACTOR

COMPANY

By _____

By LR Shanks / CR Patchy 3/30/81

Work Completed: Signed _____ Date _____

Invoice No. _____ Date _____ Amount _____ Date Rec'd. _____

Charge Account No. _____

Charge Job No. _____

Remarks _____

CHEV B8 5824

Change

Contract Number C-15-022-81

Change Number 3

Date MARCH 27, 1981

Company CHEVRON USA INC

Contractor T & R MECHANICAL CONTRACTOR, INC

The requirements of the above-designated Contract are changed as follows:

1. OVERTIME PAY FOR SATURDAY WORKED DUE TO RAIN-OUTS DURING THE WEEK OF MARCH 2 - 7.

COMPANY and CONTRACTOR agree that CONTRACTOR's compensation shall be adjusted as follows: INCREASE

\$908.88 (NINE HUNDRED-EIGHT AND 88/100 DOLLARS)

This adjustment covers the entire compensation for the Change set forth above and includes, but it is not limited to compensation for all engineering, material, equipment, subcontracts, labor, overhead, profit, changes in scheduling and delays resulting, directly or indirectly, from the Change.

CONTRACTOR

COMPANY

By _____

By LRShanks/CR. Pottinger 3/30/81

Work Completed: Signed _____ Date _____

Invoice No. _____ Date _____ Amount _____ Date Rec'd. _____

Charge Account No. _____

Charge Job No. _____

Remarks _____

CHEV B8 5825