











WEST OIL Engineering Company LLP is a domestic manufacturer of goods, works and services with high Kazakhstani content, which is confirmed by the Industrial Certificate and ST-KZ certificates for the entire range of manufactured products.

"WEST OIL" advantages



Local Content



Guarantee of implementation and subsequent operation of the system



Full cycle engineering



Measurement method

As a domestic manufacturer,
we offer gas flow measurement systems (GFMS) of Kazakhstani production, using
the measurement method with standard narrowing devices
according to GOST 8.586-2005







WEST OIL'S GFMS includes equipment of its own production

SCA - standard camera aperture
SFD - standard flange diaphragm
FDAC - flanged diaphragm with annular chambers
QRCD - quick release constriction device



- straight sections of piping
- constriction devices SCA, SFD, FDAC, QRCD
- diaphragms





- differential pressure transducer
- pressure sensor
- temperature sensor





measuring and computing complex (MCC)





The model range of WEST OIL's systems includes 18 modifications



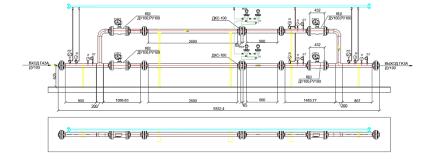
flow range

from 235 m^3/h to 152053 m^3/h



pressure

from 0.1 MPa to 10 MPa





 $temperature\ of\ the\ measured\ medium$

from -23°C to +50°C





Gas flow rate calculation along the measuring line

#	Pipeline diameter	D20	d20	Local resistance before the restriction device	Local resistance after the constriction device	Measuring pipeline after the restriction device	P	т	Δртах	Q min	Q max	δ
		mm	mm	m	m	m	MPa	°C	kPa	m³/h	m³/h	% *
Pressure 0.1-1	.6 MPa											
1.1	100	98	12,51	1,3	0,65	0,540	0,1-1,6	-23 - +50	20	77,128	233,96	12
1.1	100	98	73	2,6	0,9	0,800	0,1-1,6	-23 - +50	44	2062,9	13902	12
2.1	150	149	15	1,8	0,8	0,745	0-1,6	-23 - +50	20	66,447	334,86	12
2.2	150	149	111	3,6	1,2	0,745	0-1,6	-23 - +50	43	4629,3	31571	12
3.1	200	207	21	2,5	1,2	1,100	0-1,6	-23 - +50	20	106,49	652,1	12
3.2	200	207	155	5,0	1,7	1,100	0-1,6	-23 - +50	43	8988,7	61517	12
Pressure 0.1-6												
1.1	100	94	12,51	1,3	0,65	0,540	0,1-6,3	-23 - +50	20	147,67	490,02	12
1.1	100	94	70	2,6	0,9	0,800	0,1-6,3	-23 - +50	43	3922,4	26631	12
2.1	150	143	15	1,8	0,8	0,745	0,1-6,3	-23 - +50	20	136,92	701,36	12
2.2	150	143	107	3,6	1,2	0,745	0,1-6,3	-23 - +50	43	9020	62026	12
3.1	200	201	21	2,5	1,2	1,100	0,1-6,3	-23 - +50	20	221	1365,9	12
3.2	200	201	150	5,0	1,7	1,100	0,1-6,3	-23 - +50	43	17501	121132	12
Pressure 0.6-1	0 MPa											
1.1	100	92	12,51	1,3	0,65	0,540	0,6-10	-23 - +50	20	195,53	639,89	12
1.1	100	92	69	2,6	0,9	0,540	0,6-10	-23 - +50	43	5026,8	34007	12
2.1	150	141	15	1,8	0,8	0,745	0,6-10	-23 - +50	20	179,21	915,83	12
2.2	150	141	105	3,6	1,2	0,745	0,6-10	-23 - +50	43	11307	77800	12
3.1	200	197	21	2,5	1,2	1,100	0,6-10	-23 - +50	20	288,81	1783,6	12
3.2	200	197	147	5,0	1,7	1,100	0,6-10	-23 - +50	43	21972	152053	12

^{* -} confirmed by calculations

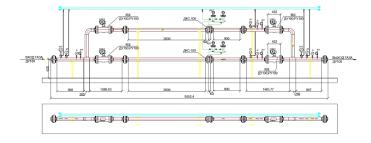




Made in KZ

The WEST OIL team develops and implements GFMS projects, using equipment of Kazakhstani and domestic production, which maximizes local content in manufacturing





For each manufactured system,
full-cycle engineering is carried out:
equipment selection, design, assembly,
instrumentation, automation, commissioning at
the customer's site, metrological certification, and
subsequent service support.





Documents

"WEST OIL" has all necessary licenses and certificates

	ATAMEKEH
индус	ТРИАЛЬНЫЙ СЕРТИФИКАТ № 109 4 00005
1. Дата регистрации в ресстре отечест 2. Напоснование заявителя: ТОО «Но	пеняных производителей томеров, работ, услуг: 15.01.2024
1. HHHUSHIR: 010540007009	
4. Вед деятельности: 28250	
 Юридический адрест Республика Ка Димократическия ст-е 7/1 	омистия, Западни-Камистанския область, г. Урапьск, ул.
 Почтивнай (фактический) адрес: Ре Димократическая ст-е 7/1 	спублика Казахстин, Западно-Казахстанская область, г. Уральск, ул.
7. Почетивый (фактический) адрес маг Казачетанская область, г. Уратыя, ул	привально-технический базы: Республика Кезихстин, Западио- Демократических ст-е 7/2
8 Tenepes:	9. Электронный адрес:
+77112933325 10. Web - caim www.ogs.kr	info@ogukz.
«Испектиров от на компания WES услуг по наимпесиание, указание	Западно-Какаостичкий области подтверокрит, что ТОС Т СИС» вклются отнественным производителем товара, работ ду в Ресстре опечественных производителей товарах, работ, услуг р итститисявама времевадителей товарав, работ, услуг
ВЗ. Дата выдачи: 15.01.2824 В. Удастоперение: Падписано и удостиперено Положитель раци: КУЛАНБАЕВ МАКСАТ Тип ЭЦП В УБАСЛАЧАЕВ П	ungi beli-pras chouden duộtonng coftant (grotivan) ang

Наименование товаров, работ, услуг (рус.яз)	Код ТН ВЭД ЕАЭС	Код КП ВЭД	Код ЕНС ТРУ
Автоматизированная групповая замерная установка АГЗУ-Поток-400-14-4,0 - 1 категория	9026808000	26.51.52	
Система измерений количества и качества нефти (СИКН) - 1 категория	9026808000	26.51.52	
Система измерений расхода газа (СИРГ) - 1 категория	9026808000	26.51.52	
Блок измерения количества и показателей качества нефти и нефтепродуктов (БИК) - 1 категория	9026808000	26.51.52	
Система отбора проб - 1 категория	9026808000	26.51.52	

Industrial certificate of domestic manufacturer





Documents

"WEST OIL" has all necessary licenses and certificates

3	ДЕКЛАРАЦИЯ О СО	
Демократическ	Н 01054007809, Товарищество с огриниченной ответств неский адрес: Республика Казахстан, Западно-Казиса ам, стротние 7/1, индеи: 090000, фиктический адрес: 1 Уральск, улица Демекратическая, стротняе 7/1, видекс: 090	станская область, город Уральск, улис
в лице: Директ	ора Нагметова Рахима Валерьевича	
заявляет, что: изготовлена в серийный выпу	Приборы контрольно-измерительные: установка измерен соответствии с ТУ4210000-003-28300-19 "Система изме ск	ния расходя газа, модель СИРГ; Продукци ерения расхода газа. Технические условия
индекс: 09000	Говаривдество с ограниченной ответственностью "Инжиния има Калисстан, Западно-Калистанская область, город Ур), фоктический адрес: Республика Калисстан, Западно-К въ, строение 7/1, индека: 190000	
Код ТН ВЭД Е	A3C: 9026808000	
соответствует т решеняем Ком	ребованиям: ТР ТС 020/2011 "Эпектремагнитная совмест- ссии Тамсиенного союза от 9 декабря 2011 г. № 879;	имость технических средств" утвержденного
TOO eXAZAUT	ответствии принята на основании: Протокола вепытаний № ОСЕRT» (аттестат: КZ.Т.02.2385); Схема декларирования : информация ГОСТ 30804.6.2-2013 (ПЕС 61000-6-2-2005) (р	3 ₂ ;
	я на ститем ов временую продукцию, изготовленную с да	
продукции, прог	Стесново Орсингания) в имерение: 03.05.2024	годи; (4.07.2029 видимунительно во Рахим Вадгроскич О И О значение
продукции, прог	репетанция в жичерение 0.362-2024 — В даты регистрация по — Нагмет — Нагмет — Регистрациянный комер деладация о соответствик ЕАС Ме	TOUSE BRITISTETERATIO 18 PAYEM BRUTTSCHIP 8 IF O SMERTING EAST KZ 7500533,13.12.03323
продукции, прог	Стесново Орсингания) в имерение: 03.05.2024	годи; (4.07.2029 видимунительно во Рахим Вадгроскич О И О значение
продукция, прог	репетанция в жичерение 0.362-2024 — В даты регистрация по — Нагмет — Нагмет — Регистрациянный комер деладация о соответствик ЕАС Ме	TOUSE BRITISTETERATIO 18 PAYEM BRUTTSCHIP 8 IF O SMERTING EAST KZ 7500533,13.12.03323
продукции, прог	репетанция в жичерение 0.362-2024 — В даты регистрация по — Нагмет — Нагмет — Регистрациянный комер деладация о соответствик ЕАС Ме	TOUSE BRITISTETERATIO 18 PAYEM BRUTTSCHIP 8 IF O SMERTING EAST KZ 7500533,13.12.03323
продукции, прог	репетанция в жичерение 0.362-2024 — В даты регистрация по — Нагмет — Нагмет — Регистрациянный комер деладация о соответствик ЕАС Ме	TOUSE BRITISTETERATIO 18 PAYEM BRUTTSCHIP 8 IF O SMERTING EAST KZ 7500533,13.12.03323
продукции, прог	репетанция в жичерение 0.362-2024 — В даты регистрация по — Нагмет — Нагмет — Регистрациянный комер деладация о соответствик ЕАС Ме	TOUSE BRITISTETERATIO 18 PAYEM BRUTTSCHIP 8 IF O SMERTING EAST KZ 7500533,13.12.03323
продукции, прог	репетанция в жичерение 0.362-2024 — В даты регистрация по — Нагмет — Нагмет — Регистрациянный комер деладация о соответствик ЕАС Ме	TOUSE BRITISTETERATIO 18 PAYEM BRUTTSCHIP 8 IF O SMERTING EAST KZ 7500533,13.12.03323
продукции, прог	репетанция в жичерение 0.362-2024 — В даты регистрация по — Нагмет — Нагмет — Регистрациянный комер деладация о соответствик ЕАС Ме	TOUSE BRITISTETERATIO 18 PAYEM BRUTTSCHIP 8 IF O SMERTING EAST KZ 7500533,13.12.03323
продукции, прог	репетанция в жичерение 0.362-2024 — В даты регистрация по — Нагмет — Нагмет — Регистрациянный комер деладация о соответствик ЕАС Ме	TOUSE BRITISTETERATIO 18 PAYEM BRUTTSCHIP 8 IF O SMERTING EAST KZ 7500533,13.12.03323
продукции, прог	репетанция в жичерение 0.362-2024 — В даты регистрация по — Нагмет — Нагмет — Регистрациянный комер деладация о соответствик ЕАС Ме	TOUSE BRITISTETERATIO 18 PAYEM BRUTTSCHIP 8 IF O SMERTING EAST KZ 7500533,13.12.03323
продукции, прог	репетанция в жичерение 0.362-2024 — В даты регистрация по — Нагмет — Нагмет — Регистрациянный комер деладация о соответствик ЕАС Ме	TOUSE BRITISTETERATIO 18 PAYEM BRUTTSCHIP 8 IF O SMERTING EAST KZ 7500533,13.12.03323

EAC Declaration of goods conformity



Origin of Goods Certificate
ST-KZ form





Documents

"WEST OIL" has all necessary licenses and certificates





1st and 2nd category License for project activities





1st and 2nd category License for construction and installation work

ISO ST RK Certificates

9001-2016 14001-2016 45001:2019









PROJECT: Construction of the Rozhkovskoye oilfield

Operational water metering unit Commercial condensate metering unit Commercial gas metering unit







MAIN DATA

Location: Kazakhstan, West Kazakhstan region, Rozhkovskoye oilfield Customer: Neftestroyservis Ltd LLP Safety Incidents: 0 Sales period: 10 months

Scope of work:

- Development of technical solution;
- Equipment supply;
- Engineering;
- Assembly and acceptance testing;
- Installation and commissioning;
- Commissioning of the system.

Brands used:

- Emerson
- Endress+Hauser
- Wika

The system provided a solution to the following customer tasks:

- Operational water metering with standardized accuracy;
- Commercial gas metering;
- Commercial condensate metering.





PROJECT: Modernization of measuring instruments of gas metering units of TPP-1, TPP-2 and TPP (1st stage)

for Mangistau Nuclear Power Plant LLP









MAIN DATA

Location: Kazakhstan, Mangistau region, Aktau city, Customer: MNPP LLP Safety incidents: 0 Sales period: 12 months

Scope of work:

- Development of technical solution;
- Detailed design;
- Equipment supply;
- Engineering;
- Assembly and acceptance testing;
- Installation and commissioning;
- Commissioning of the system.

Brands used:

- Siemens
- Emerson
- SCADA systems construction

The system provided a solution to the following customer tasks:

- Determination of volumetric flow rate of natural gas;
- Registration, storage and transmission of information to the telemetry system and SCADA.



GFMS Gas flow measurement system

PROJECT: Gas flow measurement system (GFMS)

for Embamunaigas JSC, customer Kerneu Limited LLP





MAIN DATA

Location: Kazakhstan, Mangistau region, Tolkyn oilfield (Prorvinskaya oilfield group) Customer: Kerneu Limited LLP Safety incidents: 0

Sales period: 6 months

Scope of work:

- Development of technical solution;
- Detailed design;
- Equipment supply;
- Engineering;
- Assembly and acceptance testing;
- Installation and commissioning;
- Commissioning of the system.

Brands used:

- Ametek Ruffneck
- Emerson SCADA systems construction
- СГОЭС

The system provided a solution to the following customer problems:

- Automated measurement of volumetric flow rate, quantity (volume) and quality of dry purified natural gas (determination of component composition, density, dew point temperature for moisture and hydrocarbons), when conducting accounting and settlement operations.



GFMS Gas flow measurement system

PROJECT: Gas flow measurement system (GFMS)

for Ken-Sary LLP





MAIN DATA

Location: Kazakhstan, Mangistau region, Arystanovskoye oilfield Customer: Ken-Sary LLP Safety incidents: 0 Sales period: 12 months

Scope of work:

- Development of technical solution;
- Detailed design;
- Equipment supply;
- Engineering;
- Assembly and acceptance tests;
- Installation and commissioning;
- Metrological certification;
- Commissioning of the system.

Brands used:

- GE Sensing, Emerson, Ametek, Rotork
- SCADA systems construction

The system provided a solution to the following customer tasks:

- Determination of volumetric flow rate of natural gas;
- Control of hydrogen sulfide analysis;
- Determination of dew point for hydrocarbons;
- Determination of the moisture level of natural gas;
- Determination of the component composition of gas;
- Registration, storage and transmission of information to the telemetry system and SCADA.

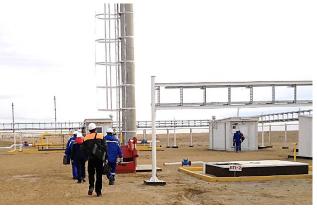


GFMS Gas flow measurement system

PROJECT: Gas flow measurement system (GFMS)

for Meerbusch LLP





MAIN DATA

Location: Kazakhstan, Mangistau region, Kulzhan oilfield Customer: Meerbus<u>ch LLP</u>

Cofety incidents: 0

Safety incidents: 0

Sales period: 12 months

Scope of work:

- Development of technical solution;
- Detailed design;
- Equipment supply;
- Engineering;
- Assembly and acceptance testing;
- Installation and commissioning;
- Commissioning of the system.

Brands used:

- Ametek Rotork
- GE Sensing SCADA systems construction
- Emerson

The system provided a solution to the following customer tasks:

- Determination of volumetric flow rate of natural gas;
- Control of hydrogen sulfide analysis;
- Determination of dew point for hydrocarbons;
- Determination of the moisture level of natural gas;
- Determination of the component composition of gas;
- Registration, storage and transmission of information to the telemetry system and SCADA.



PROJECT: Gas quality analysis unit (GQAU)

for KPO b.v.





MAIN DATA

Location: Kazakhstan, Mangistau region, Kulzhan oilfield Customer: Meerbusch LLP

Safety incidents: 0
Sales period: 12 months

Scope of work:

- Development of technical solution;
- Detailed design;
- Equipment supply;
- Engineering;
- Assembly and acceptance testing;
- Installation and commissioning;
- Commissioning of the system.

The system provided the solution to the following customer tasks: - Determination of the component composition of gas with a high content of

- Determination of the component composition of gas with a high content of hydrogen sulfide (5-7%);
- Control over the technological process (control of the content of components C5+);
- Determination of gas humidity;
- Determination of physical and chemical parameters.

Brands used:

- DANI Instruments Spa - Dräger

- Ametek - Ruffneck

- Birdwell - Siemens

- SCADA systems construction



PROJECT: Gas quality analysis unit (GQAU) as part of OQMS

for Ken-Sary LLP







MAIN DATA Location: Kazakhstan, Mangistau region, Arystanovskoye oilfield Customer: Ken-Sary LLP Safety incidents: 0 Sales period: 12 months

Scope of work:

- Development of technical solution;
- Detailed design;
- Equipment supply;
- Engineering;
- Assembly and acceptance testing;
- Installation and commissioning;
- Commissioning of the system.

Brands used:

- Ametek CF03C
- Emerson Ruffneck
- Birdwell SCADA systems construction

The system provided the solution to the following customer tasks:

- Determination of component composition;
- Determination of dew point temperature for water;
- Determination of dew point temperature for hydrocarbons;
- Determination of low concentrations of hydrogen sulfide in gas;
- Determination of physicochemical parameters.



PROJECT: Gas quality analysis unit (GQAU)

for JV Kazgermunai LLP





MAIN DATA

Location: Kazakhstan, Kyzylorda region, Akshabulak oilfield Customer: JV Kazgermunai LLP

Safety incidents: 0
Sales period: 6 months

Scope of work:

- Development of technical solution;
- Detailed design;
- Equipment supply;
- Engineering;
- Assembly and acceptance testing;
- Installation and commissioning;
- Commissioning of the system.

Brands used:

- Ametek Stahl
- Birdwell CГОЭС
- Ruffneck

The system provided the solution to the following customer tasks:

- Determination of dew point temperature for water;
- Determination of dew point temperature for hydrocarbons.



Company resources



WESTOIL

Company resources

Production facilities of WEST OIL are equipped with all the necessary modern equipment and divided into zones of the technological production chain.





The workshop is combined with a administrative and household building Total Area 1530 m²



COMPANY STAFF MORE THAN 100% KZ RESIDENTS PEOPLE

Highly qualified experienced professionals at all levels of the production process:

18

Manufacturing
Process
Managers

6

Design Development and Engineering

6

Automation Specialists Department 4

Production and technical department

17

Instrumentation Installation Department 8

Service and
Maintenance of
Analytical Equipment

25

Mechanical Assembly
Production
Workshop

6

Transport department

The distribution of tasks among specialized departments allows you to shorten the periods of implementation of engineering projects.





We are always open for cooperation and are ready to consider the possibility of implementing projects of any complexity

Republic of Kazakhstan, WKO, Uralsk, 090005, Democratic St., 7/1 +7 7112 933 325 WhatsApp: +7 777 79 79 101











