

TIGHT HOLE

SIDE TWO

Operator Name Energy Exploration, Inc. Lease Name Werth Well # J.....

Sec..... 2 Twp..... 10S Rge..... 26 East West County..... Sheridan

WELL LOG

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
Samples Sent to Geological Survey Yes No
Cores Taken Yes No

Formation Description
 Log Sample

DST #1 3798 -3854 (Tor., Lns. A) 30-60-60-60, Rec. 20' 0 spk. M, 480' W, 65,000 chl., IHP 1859, IFP 52-105, ISIP 819, FFP 148-232, FSIP 746, FHP 1849, temp. 121°
DST #2 3861 -3880 (Lns. B) 30-60-60-60, Rec. 600' GIP, 140' GO (36°), 120' MOCW (10% O, 10% M, 80% W), 660' W, 65,000 chl., IHP 1922, IFP 73-179, ISIP 881, FFP 254-423, FSIP 860, FHP 1890, temp. 128°
DST #3 3879 -3890 (Lns. D) 30-60-60-60, Rec. 1320' GIP, 370' CO (37°), 420' OCW (5% O), 60,000 chl., IHP 1922, IFP 73-137, ISIP 933, FFP 211-338, FSIP 881, FHP 1922, temp. 128°
DST #4 3907 -3928 (Lns. E,F) 30-60-60-60, Rec. 30' 0 spk. M, 1950' W, 70,000 chl., IHP 1933, IFP 444-820, ISIP 1029, FFP 925-1029, FSIP 1050, FHP 1923, temp. 128°
DST #5 3962-3990 (Lns. H) 30-60-60-60, Rec. 10' MW (50% M, 50% W), 30,000 chl., IHP 1985, IFP 52-52, ISIP 1133, FFP 63-74, FSIP 1071, FHP 1985, temp. 127°

Name	Top	Bottom
Shale	0	2,207'
Anhydrite	2,207'	2,246'
Shale	2,246'	2,940'
Shale and Lime	2,940'	3,345'
Lime and Shale	3,345'	3,535'
Shale and Lime	3,535'	3,716'
Lime and Shale	3,716'	4,110'
Rotary Total Depth		4,110'
Formation	Sample	Log
Anhydrite	2207 +384	2212 +379
Heebner	3804 -1213	3807 -1216
Toronto	3826 -1235	3826 -1235
Lansing	3840 -1249	3843 -1252
Stark Shale	4035 -1444	4036 -1445
BKC	4076 -1485	4077 -1486
T.D.	4110	4111

DST #6 4009-4051 (Lns. J,K) 30-60-60-60; Rec. 40' M, 300' W, 45,000 chl.; IHP 2006, IFP 84-137, ISIP 581, FFP 180-233, FSIP 434, FHP 1964, temp. 129°

CASING RECORD New Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs/Ft.	Setting Depth	Type of Cement	#Sacks Used	Type and Percent Additives
Surface	12-1/4"	8-5/8"	20#	231'	Common	140	3% cc. 2% gel
Production	7-7/8"	4-1/2"	10.5#	4109'	pozmix surefill	25 125	7# gil. 4# gil.

PERFORATION RECORD

Shots Per Foot | Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) | Depth

2	3884-3886	250 gals. 15% MCA acid	3884-86
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TUBING RECORD

Size 2 3/8" Set At 3921' Packer at N/A Liner Run Yes No

Date of First Production 9-2-87 Producing Method Flowing Pumping Gas Lift Other (Specify) 10-20-1988
OCT 20 1988

Estimated Production Per 24 Hours	Oil Bbls	Gas TSTM MCF	Water Bbls	Gas-Oil Ratio	Gravity
	60		70	N/A	38.8

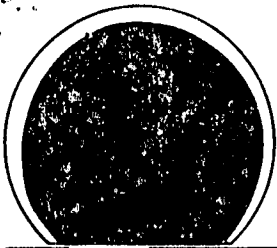
FROM CONFIDENTIAL

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify) 3884-86
 Used on Lease Dually Completed
 Commingled

15-179-20900-00-00



ENERGY EXPLORATION, INC. • 1002 SOUTH BROADWAY • WICHITA, KANSAS 67211 • (316) 267-7336

November 16, 1987

*3E 10N 1/2W
of Quinter*

Madam/Sir:

Please find enclosed a copy of the completion report during the cementing of the upper stage (alternate 2 completion) on the above mentioned well. Also, cementing ticket(s) showing the work completed.

If you have any questions please call.

Sincerely,
Brad D. Lehl

*W 1/2 NW 1/4 SE 1/4 2-10-26W
Sheridan Co.*

RECEIVED
ST. WENDELL
1-22-1988
JAN 22 1988
ST. WENDELL, KANSAS

*Dennis A -
DNL*

W.J. Luck Consultant
Box 1045
Great Bend, Kansas 67530

Handwritten: W. J. Luck Office

Mr. Joe Mace
Energy Exploration Inc.
1002 S. Broadway
Wichita, Kansas 67211

RECEIVED
STATE COMMISSION
1-22-1988
JAN 22 1988
CONSULTATION DIVISION
Wichita, Kansas

Re: Werth #-1
Sheridan County, Kansas

11-6-87

Rigged up Mufin and pulled rods and tubing. Ran and set retrievable bridge plug at 2340. Dumped 2 sacks of sand on plug. Loaded hole with salt water and tested plug to 1000#. Rigged up Wire-tech and perforated well 2184 with 2 shots. Rigged up BJ-Titan and mixed 450 sacks Lite weight and 50 sacks common cement, displaced cement to 2161 with water.

11-7-87

Ran temp servey top of cement at 1000 feet. Ran tubing and bit in well and drilled out cement and washed sand off plug, pulled tubing and bit. Rigged up Allied and pressure the casing to 500#. Mixed 200 sacks of lite weight cement and pumpit down the back side of the 4-1/2 casing, 100# of pressure, shut casing in.

11-8-87

Ran temp. servey, cement 50 feet from surface.

11-9-87

Ran tubing and retrieving tool in well, finished cleaning sand off plug. Pulled tubing and plug. Ran tubing and rods back in well. Spaced pump out and put well to pump-ing. Rigged down, cleaned up location moved off.

Thank you

W. J. Luck

15-179-70900-00-00

DATE OF JOB
MM DD YY
11 6 87

CONTRACT NO. 281902

DIRECT CORRESPONDENCE TO P.O. BOX 4442 HOUSTON, TX 77210	TERMS NET 30 DAYS FROM DATE OF CONTRACT	SHIP TO: P.O. BOX 200416 HOUSTON, TX 77216
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ORDER NO.

CUSTOMER

NAME: *Energy Exploration* NO. _____
 ADDRESS: _____
 CITY: _____ STATE: _____ ZIP CODE: _____
 AUTHORIZED BY: *Bill Link*

DESCRIPTION OF WELL

WELL NO. *1* OIL () NEW () STATE *Ks* CODER _____
 GAS () OLD ()
 LEASE NAME: *Worth* COUNTY/PARISH: _____
 FIELD NAME: *Murkin Unit* CITY: _____
 OWNER: *Energy Exploration* MTA DISTRICT: _____
 LEASE LINES: *See Trip Party*
 SURVEY LINES: *Hale Ray, Lee, Fritz*
 SURVEY: *Pump hole 1452 (SU 6459)*
 DIRECTIONS TO LOCATION: *Quarter 3E-10N-3W*
 SECTION, TOWNSHIP, RANGE: _____
 QUADRANT: *Delivered from Oakley Ks SU-2758*

JOB INFORMATION

ARRIVED				RELEASED			
H	MM	A	MM DD YY	HH	MM	A	MM DD YY
1	45	P	11 6 87	1	45	P	11 6 87

API OR IC NO. _____
 BUSINESS CODE: *Perfor. & mud* INJ. RATE (BPM): _____ WORKING WELL DEPTH: *2130 FT.*

DIST. NO. _____ DISTRICT NAME: _____ SLSMAN NO. _____

CONTRACT CONDITIONS

This contract must be signed before the job is started or merchandise delivered. The undersigned is authorized to execute this contract as an Agent of the Customer. As such, the undersigned acknowledges that this contract for services, materials, products and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional substitute terms and/or conditions shall become a part of this contract without the written consent of an Officer of BJ-TITAN SERVICES COMPANY.

SIGNED: *Bill Link* (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

PRICE BOOK REF. NO.	SERVICES/MATERIAL	U/M	QUANTITY	PRICE	EXTENSION
1010031	Pump hole charge			879.00	879.00
1010200	Pump hole mileage <i>oakley</i>	RT	100	1.10	110.00
10410504	Compressor	wt	50	6.00	300.00
10415004	Lightweight	wt	450	5.56	2502.00
10427510	Hand	cut	200	5.00	1000.00
10431008	Plus	wt	1	28.00	28.00
10940100	Handling <i>25.3 x 10</i>	7m	1115	70	78050
0880034	Handling & dumping	wt	500	95	47500
	<i>Sub Total</i>				5084.50
	<i>- 25% discount</i>				1169.44
	<i>Total</i>				3915.06

SERVICE REPRESENTATIVE: *Bill Link* PR. BOOK: *07*

The above material and service ordered by the Customer and received by: *Bill Link* (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

WIRE-TECH SERVICES, INC.

P. O. Box 596

Great Bend, Kansas 67530

15-179-20900-00-00

WORK ORDER,
INVOICE & TICKET

No 3562

WELL NO. AND FARM Worth #1	COUNTY Shelton	STATE Kansas	DATE 11-6-87
OWNER Energy Exploration	CONTRACTOR Mullin	CASING SIZE 4 1/2	LEGAL DESCRIPTION 2-10-26 W
CHARGE TO	CUSTOMER ORDER NO.	WIRE-TECH OPERATOR M. Naddon	
ADDRESS	PLACE OR FIELD	TRUCK NO. 51	TYPE OF JOB Per

You are hereby requested to furnish equipment and servicemen to deliver and operate the same as an independent contractor to performing services as follows: _____ and deliver and sell products, supplies and materials for the purpose of _____

PERFORATING, PLUGS AND OTHER					SERVICE CHARGE				
PRICE REFERENCE	DESCRIPTION	NO. HOLES	DEPTH FROM	TO	AMOUNT	PRICE REFERENCE	RUN NO.	PREVIOUS INVOICE NO.	AMOUNT
2200	Perf 2/ft	2	2184						
DEPTH AND OPERATIONS CHARGES									
PRICE REFERENCE	DESCRIPTION	DEPTH FROM	TO	NO. FEET	AMOUNT				
	STATE					1-22-1988 2-2-1988			

SUB-TOTAL \$ _____
TAX _____
TOTAL \$ _____

I have read and understand the contract below and represent that I am authorized to sign the same as Customer's agent.

Date _____ Time Signed _____ A.M. P.M. Customer *[Signature]*

WORK ORDER CONTRACT

As consideration the above named Customer agrees:

- (a) To pay Wire-Tech in accord with the rates and terms stated in Wire-Tech's current price schedules.
- (b) Wire-Tech shall not be responsible for and Customer shall secure Wire-Tech against any liability for damage to property of Customer and of the Well Owner (if different from Customer) unless caused by the willful misconduct or gross negligence of Wire-Tech, this provision applying to but not limited to subsurface damage and surface damage arising from subsurface damage.
- (c) Customer shall be responsible for and secure Wire-Tech against any liability for reservoir loss or damage or property damage resulting from subsurface pressure, losing control of the well and/or well blowout, unless such loss or damage is caused by the willful misconduct or gross negligence of Wire-Tech.
- (d) Customer shall be responsible for and secure Wire-Tech against any and all liability of whatsoever nature for damages as a result of a subsurface trespass or an action in the nature thereof arising from a service operation performed by Wire-Tech hereunder.
- (e) Customer shall be responsible for and secure Wire-Tech against any liability for injury to or death of persons other than employees of Wire-Tech or damage to property (including but not limited to injury to well) or any damages or costs whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material or equipment in the well hole, unless such damage or costs shall be caused by the willful misconduct or gross negligence of Wire-Tech.
- (f) Wire-Tech makes no guarantee of the accuracy of log interpretations, the effectiveness of the products, supplies or materials, nor of the results of any treatment or service. When an interpretation of any log is required, Wire-Tech personnel will offer their best judgment as to the correct interpretation. However, since such interpretations are actually opinions based on measurements, Wire-Tech does not guarantee the accuracy of these opinions or interpretations. Customer agrees Wire-Tech is not responsible except where due to Wire-Tech's gross negligence or willful misconduct for loss, damages or expenses sustained by Customer as a result of any such interpretations made by Wire-Tech personnel.
- (g) Without limiting paragraph (e), at Customer's expense, to recover any Wire-Tech equipment, tools or instruments which are lost or damaged in the well, and if recovery cannot be had, to pay Wire-Tech for such equipment, tools or instruments, unless such loss or damage is caused by the negligence of Wire-Tech.
- (h) Wire-Tech warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. There are no warranties, express or implied, of merchantability, fitness or otherwise which extend beyond those stated in the immediately preceding sentence. Wire-Tech limits its liability for breach of any warranty or for damages, direct or consequential, resulting from its negligence with respect to the use of such products, supplies or materials to the replacement of such products, supplies or materials on their return to Wire-Tech or, at Wire-Tech's option, to the allowance to Customer of credit for the cost of such products, supplies or materials.
- (i) Upon Customer's default in the payment of Customer's account 60 days after receipt of invoice, such account will be subject to interest after date of invoicing until paid, at the rate of 1 1/2 percent per month.
- (j) Wire-Tech shall not be bound by any changes or modifications in this contract except where such change or modification is made in writing by a duly authorized executive officer of Wire-Tech.
- (k) Customer, or his agent, represents the well is in proper condition to receive the products, supplies, materials and services.