## TIGHT HOLE

Form ACO-1 (5-86)

STATE CORPORATION COMMISSION OF KANSAS	API NO. 15
OIL & GAS CONSERVATION DIVISION WELL COMPLETION OR RECOMPLETION FORM	©unty. Sheridan
ACO-1 WELL HISTORY	Eac+
DESCRIPTION OF WELL AND LEASE	W.2. NW. SE. $s_{ec}2$ $t_{wp}10S$ . $R_{ge}.26$ $\overline{X}$ West
Operator: License # . 5063	.1980 Ft North from Southeast Corner of Section 2310 Ft West from Southeast Corner of Section
Operator: License # 5063 Name Energy Exploration, Inc. Address 1002 S. Broadway	(Note: Locate well in section plat below)
City/State/Zip Wichita, K\$ 67211	Lease Name M.J. Werth
Koch Oil	Field Name Custer, NW
	Producing Formation Lansing
Operator Contact Person Brad D. Lehl 316-267-7336 Phone	Elevation: Ground 2586' KB 2591'
Contractor:Ligense # 5107 Name H-30, Inc.	5280 4950 4620
Wellsite Geologist Kevin Howard Phone 316/267-7336	4290 3960 3630 3300
Designate Type of Completion  X New Well Re-Entry Workover	2970 2640 2310 1980
XOII SWD Temp Abd	1650
XOII SWD Temp Abd Gas Inj Delayed Comp. Dry Other (Core, Water Supply etc.)	990
Dry Other (Core, Water Supply etc.)  If OWWG: old well info as follows:	330
If OWWG: old well into as follows: N/A Operator N/A	5280 4620 3300 3300 3300 1520 1320 330 330 330 330 330 330 330
Well NameOld Total Depth	WATER SUPPLY INFORMATION
	Disposition of Produced Water:  Docket # CD 128219 (C-21,63) X Disposal Repressuring
WELL HISTORY Drilling Method:	Docket # CD 120213 (C-21;00) Repressuring
X Mud Rotary Air Rotary Cable	Questions on this portion of the ACO-1 call:
7-22-87 7-30-87 8-22-87	Water Resources Board (913) 296-3717 Source of Water:
Spud Date Date Reached TD Completion Date	Division of Water Resources Permit #
4110' N/A	GroundwaterFt North from Southeast Corner
Total Depth PBTD	(Well)Ft West from Southeast Corner of
Amount of Surface Pipe Set and Cemented at 231.feet	Sec Twp RgeEastWest
Multiple Stage Cementing Collar Used? Yes X No	Surface WaterFt North from Southeast Corner
If yes, show depth setfeet  If alternate 2 completion, cement circulated	(Stream,pond etc)Ft West from Southeast Corner Sec Twp Rge East West
fromw/SX cmt	X Other (explain) Purchased from landowner
Cement Company Name	(purchased from city, R.W.D. #)
INSTRUCTIONS. This form shall be completed to talk	cate and filed with the Kansas Corporation Commission,
200 Colorado Derby Building, Wichita, Kansas 67202,	
82-3-130, 82-3-107 and 82-3-106 apply.	Ald profit dential for a restaut of 42 and 44
in writing and submitted with the form. See rule 82-	eld confidential for a period of 12 months if requested -3-107 for confidentiality in excess of 12 months.
One copy of all wireline logs and drillers time log	g shall be attached with this form. Submit CP-4 form with
all plugged wells. Submit CP-111 form with all tempo	prarily abandoned wells.
All requirements of the statutes, rules and regulation been fully complied with and the statements herein are	ons promulgated to regulate the oil and gas industry have complete and correct to the best of my knowledge.
Signature Jayan D. Mace	K.C.C. OFFICE USE ONLY
Title President Date	9-15-57 (c) Wireline Log Received
Uate	Drillers Timelog Received
Subscribed and sworn to before me this	,
19.8.4.	KCC SWD/Rep NGPA C KGS Plug Other
Date Commission Expires 1-30-89 CH	ERYL L. IDLEMAN  MOTARY PUBLIC  PRATE OF MANAGE  MOTARY PUBLIC  MO
MANUE - d	ppl Exp. F-30-89

## 3/5-179-20900-00-00

SIDE TWO

TIGHT HOLE

Operator Name	gy Exploration.	. If C Lea	ase Name		.Well #d.i	
Sec2 Twp10S	Rge. 26 X	]East ^ ]West Cou	Sherio	dan	•••••	
		WELL LOG				
INSTRUCTIONS: Show imports tests giving interval to pressure reached static if gas to surface during to	ested, time tool o level, hydrostatic p	pen and close ressures, botto	ed, flowing and : om hole temperatu	shut-in pressure re, fluid recove	s, whether snut-in ry, and flow rates	
Drill Stem Tests Take Samples Sent to Geolo Cores Taken		No No	·	rmation Descript		
OST #1 3798 -3854 (Tor. Rec. 20' 0 spk. M, 480' FFP 52-105, ISIP 819, F. 849, temp. 121°. OST #2 3861 -3880 (Lns. GIP, 140' GO (36°), 120' G), 660' W, 65,000 chl. SIP 881, FFP 254-423, 28°.	, Lns. A) 30-60- W, 65,000 chl. FP 148-232, FSII B) 30-60-60-60 O' MOCW (10% 0, 1 , IHP 1922, IFP	-60-60, , IHP 1859, P 746, FHP , Rec. 600' 10% M, 80% 73-179,	Name   Shale   Anhydrite   Shale   Shale and Lin   Lime and Shale and Lin   Lime and Shale and Lin   Lime and Shale and Shale and Shale and Shale Rotary Total	2,20 2,24 me 2,94 le 3,34 me 3,53 le 3,71	0 2,207' 7' 2,246' 6' 2,940' 0' 3,345' 5' 3,535' 5' 3,716'	
OST #3 3879 -3890 (Lns. GIP, 370' CO (370), 420 GIP, 370' CO (370), 420 GHP 1922, IFP 73-137, I B81, FHP 1922, temp. 12 OST #4 3907 -3928 (Lns. O) Spk. M, 1950' W, 70,0 G44-820, ISIP 1029, FFF G923, temp. 1280.	O' OCW (5% 0), 60 SIP 933, FFP 21: 80. E,F) 30-60-60-60 000 chl., IHP 193 925-1029, FSIP	0,000 chl., 1-338, FSIP 60, Rec. 30' 33, IFP 1050, FHP	Anhydrite Heebner Toronto Lansing Stark Shale BKC T.D.	Sample 2207 +384 3804 -1213 3826 -1235 3840 -1249 4035 -1444 4076 -1485 4110	Log 2212 +379 3807 -1216 3826 -1235 3843 -1252 4036 -1445 4077 -1486 4111	,
OST #5 3962-3990 (Lns. NW (50% M, 50% W), 30,0 S2, ISIP 1133, FFP 63-7 Cemp. 127	00 chl., IHP 198 4, FSIP 1071, FR	85, IFP 52- HP 1985,	Rec. 40' M, 30 IFP 84-137, IS FHP 1964, temp	00' W. 45,000	K) 30-60-60-60; chl., IHP 2006 180-233, FSIP 4	6,
Report a	CASING REC II strings set-condu		intermediate, pro		Type and	
Purpose of String   Size   Dril		Weight	Setting Type Depth Cem	of #Sacks	Type and Percent Additives	
Surface 12-1 Production 7-7	/4" 8-5/8" /8" 4-1/2"	20#. 	231'Comm  .4109'pozm	lix	3%.cc.2%.gel  7½# qil. 4# gil.	
PERFORATION Shots Per Foot   Specify F		val Perforated	· -	Shot, Cement Sq d of Material Us		
2	3884-3886	•••••	250 gals. 15	% MCA acid	3884-86	
TUBING RECORD Size	Set At P 3/8" 3921'	acker at N/A	l   Liner Run [ 	Yes X No	eased	
Date of First Production 9-2-87	Producing Method	Flowing X Pum	ping [ ] Gas Lift[		-20-1988	
	Oil	Gas	Water	FROM CC	NFIDÊNTÎĂL	
Estimated Production Per 24 Hours	60	TSTM	70	N/A	38.8	
	Bbis   MFTH0	MCF	Bb1:		PB   ction Interval	
Disposition of gas: X Ve	nted	Open Hole Other (Spe	X Perforation		384-86	
	·		ally Completed mmilngled	••••	• • • • • • • • • • • • •	



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

November 16, 1987

3E 10N KW 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.

Wie NW45E42-10-26W

Sherida-Co.

1-72 1000

Ohne Contide the south Vilonita, Kansas

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

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

Re: Werth #-1
Sheridan County, Kansas

STATE CONTINUES

STATE CONTINUES

1-ZZ-1988

CONSLITATION DIVISION

Friching, Kausas

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 well2184 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 pumping. Rigged down, cleaned up location moved off.

Thank you

W. J. Luck

、 <i>デ</i> タリレビろ しり	OMPANY CUSTOMER	COPY	MM	TE OF JOB DD YY	The second second second second	1 1 1	
	15-179-2090			6 87	CONTRACT N	2819	12
P.O. BOX 4442	TERMS NET 30 DAYS FROM	No. 12 MAPE PAR	MITTO:		CORRELIA	D MARK	1
HOUSTON, TX 77210	DATE OF CONTRACT	HOUST			ORDER NO.	7.0	
	STOMER		) D	ESCHIPTION	OR WELL		
ME TO A CARE CALL U.	NO.	WELL NO.	<u> 6</u>	L) (NEW)	STATE	1	CODE8
DRESS		LEASE NAME	<u> </u>	re     Orb	COUNTY/PARIS	H A	ASSAUT.
Y	STATE ZIP CODE	FIELD NAME	tro	$\mathcal{F}_{i,j}$	<b>FREE</b>		
THORIZED BY		Margan	Link		LONG!	للملأ	
16:110 %	Jak	OWNER	Engl	andia	MTA DISTRICT		
JOB INFORMATION (A)	ROUND TRIP-MILES RELEASED	LEASE MILES	6		S(A)		
H MM A) MM DD 3	YY HH MM A MM DD YY	SURVEY: BINES	6 0	$\frac{0}{\sqrt{2}\sqrt{2}}$		all to 1948. Available of the	
B CODE TYPE OF JOB	API OR IC NO.	SURVEY	Rugi	nt. est	ريان ولاد		
	INJ. RATE (BPM) WORKING WELL DEPTH	DIRECTIONS TO LOCA	J. II	152 (51	164593		110
100 1	21305	Quinter	3 E -	100136	3	34.03%	
IST. NO. DIST	RICT NAME SLSMAN NO.	SECTION, TOWNSHIP,	RANGE		remise in	white the	
1220 00 13.	И,	QUADRANT		000	S. S. Park S. U.		
		CT CONDITIONS	N. W.	oldo m	<u>s Ar Su</u>	- a75 a	
This contract must be sig The undersigned is author	ned before the job is started or merci rized to execute this contract as an Ag	handise delivered.	As suci	, the understa		HALL SHEET	
contract for services, mate	riais, products and/or supplies include	es all of and only tho	se terms	and condition	gned acknowle Is appearing on	dges that thi the front an	d .
Pack of this document, 190	o additional substitute terms ecome a part of this contract without		15C	- (J)	- And the second	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
the written consent of an	Officer of BJ-TITAN SERVICES COMP	SIGNED: 1 (W	ELL OWN	ER: OPERATOR	R, CONTRACTOR	OR AGENT)	
PRICE BOOK REF. NO.	SERVICES/MATERIAL		U/M	QUANTITY	PRICE	EXTENS	ONE
10100315	Promise Of accomme				879 00	8'79	
31.0.1.0.2.0.0.5	Pump 1 mullings	02/201	F/7	100	0 19 00		
310410504	Commence	<u> </u>	13.7	<u> 100</u> 50	110	300	00
21.0.4.1.56.0.5	2 -01		1865 1865	20	G O O		4
	W. W. W. S. C. S.			1 1			00
De la Contrada de la	\$10 A 10 A			150	5 56	M = 1 4	00
all A b D I A m el	20		6,0	150	5 56	2502 10	1.24
71.094010	Paus	3 3 2	20	200	5 56 \$500 2800	2502 10 28	00 00
11.09.4010:	Pour 231	3 x 27	610 00 MT	1115	5 56 28 00 70	2562 10 28 780	00 00
41.09.401.0:	Plus Handling advanced	3 x 27.	20	200	5 56 \$500 2800	2502 10 28 780 475	00 00 00 50 00
11.09.4010:	Handling 23.3 Handling & dumper	3 x 2/2	610 00 MT	1115	5 56 28 00 70	2562 10 28 780	00 00 00 50 50 50
11.09.4010:	Pour Day 2213 Handling & dumpie Aub John?	3 x 2/2	610 00 MT	1115	5 56 28 00 70	2502 - 10 - 28 - 780 - 475 - 5084 - 1169	00 00 00 50 00
11.09.401.0:	Handling 23.3 Handling & dumper	3 x 2/2	610 00 MT	1115	5 56 28 00 70	2502 10 28 780 475	00 00 00 50 50 50
11.09.401.0:	Pour Day 2213 Handling & dumpie Aub John?	3 4 34	610 00 MT	1115	5 56 28 00 70	2502 - 10 - 28 - 780 - 475 - 5084 - 1169	00 00 00 50 50 50
11.09.4010:	Pour Day 2213 Handling & dumpie Aub John?		610 00 MT	1115	5 56 28 00 70	2502 - 10 - 28 - 780 - 475 - 5084 - 1169	00 00 00 50 50 50
11.09.401.0:	Pour Day 2213 Handling & dumpie Aub John?		610 00 MT	1115	5 56 28 00 70	2502 - 10 - 28 - 780 - 475 - 5084 - 1169	00 00 00 50 50 50
11.09.401.0:	Pour Day 2213 Handling & dumpie Aub John?		610 00 MT	1115	5 56 28 00 70	2502 - 10 - 28 - 780 - 475 - 5084 - 1169	00 00 00 50 50 50
2 1.09.401.00: 8 0.8.8.0.00.5.10	Handling advanger Handling advanger dub Jolah Jalah		610 00 MT	1115	5 56 28 00 70	2502 - 10 - 28 - 780 - 475 - 5084 - 1169	00 00 00 50 50 50
BERVICE REPRESENTATIVE	Paul Adding a durangua durangu	ne above material and rvice ordered by the	610 00 MT	1115	5 56 28 00 70	2502 - 10 - 28 - 780 - 475 - 5084 - 1169	00 00 00 50 50 50
11.09.4010:	Paul Adding a durangua durangu	rvice ordered by the istomer and received by:	Sint Sin	300 1115 500	5 56 28 00 70	2562 10 28 780 475 5084 1169 3975	G G G G G G G G G G G G G G G G G G G

-2627, Russell, Kansas 516-793-5861, Great Bend, Kansas

Phone Plainville 913-434-2812

1300

Phone Ness City 913 798 3843

Home Office P. O. Box 31

Russell, Kansas 67685

Sec. Twp. Range Called Out On Location Job Stace Location Stuffer Well No. ontractor Owner To Allied Cementing Co., Inc. ype Joh You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed .ole Size T.D. TOTAL CHENCE TO BE WELL 4104 Depth Charge To i.g. Size Depth Street rill Pipe Depth State loc Depth The above was done to satisfaction and supervision of owner agent, or contractor and Hamilton ement Left in Csg. Shoe Joint 20年10年 Purchase Order No. ress Max. Minimum Jeas Line Displace CEMENT erf. Amount Ordered **EQUIPMENT** Consisting of No. Cementer Common 191 Poz. Mix umptrk Helper Gel. No. Cementer Chloride umptik Helper Quickset Driver Janton. 'ulk**trk** ulktr**k** Driver Sales Tax Handling & 10 d /s & EPTH of Job elerence: Sub Total Total Sub Total Floating Equipment Tax Total lemarks: dig. 1300

WIRE-TECH SERVICES, INC. 79-20900-00-00

STATE 4

P. O. Box 596

Great Bend, Kansas 67530

COUNTY

WORK ORDER,
INVOICE & TICKET

No

DATE

3562

W	oth "		S	easter	Kar	759 5		1.8	-87	<del>)</del>
WNER 10	eth III	ion	con	CUSTOMER ORE	DER NO	CASING SIZE	LEGAL I	DESCRIPTION	34	w
DDRESS				PLACE OR FIELD		TRUCK	111	YAC	Do.	7
				TAGE ON FIELD		S	/	Per		
	hereby requested to furning services as follows:	ish equip		vicemen to deli and deliver an						
- <del> </del>	PERFORATING, I	PLUGS A	ND OTHER	<del> </del>			SERVICE	CHARGE	····	<del></del>
PRICE REFERENCE	DESCRIPTION	NO. HOLES	DEPTH FROM TO	AMOUNT	PRICE REFEREN	Dist		PREVIOUS		
2200	Wach 2/ff	2	218	14						
	\$r'			7	DEPTH AND OPERATIONS CHARGES					3
					PRICE REFERENCE	DESCRIPTION	FROM	EPTH .	NO. FEET	AMOUNT
						STATE				
							/-Z2	1988	. J	
							4 2	1988		
						lo	hita Ka	i3:071		
	AND THE PROPERTY OF THE PROPER						7	1963		
									L	<u> </u>
							SUB	-TOTAL	\$	
							TAX			
							TOTA	AL	\$	
Dato	Time	Signed	A.M. P.M.	(110 8)	Custome as Custome	rstand the contra	act below an	d represent the	ıt I am auti	horized to sign
	,		WORK O	RDER CON	TRACT					

As consideration the above named Customer agrees:

WELL NO AND FARM

- (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 return to Wire-Tech's option, to the allowance to Customer of credit for the cost of such products, supplies or materials.
- 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 1½ 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.