API NO. 15- 0952174-0000

## STATE CORPORATION COMMISSION KANSAS OIL & GAS CONSERVATION DIVISION WELL COMPLETION FORM

ACO-1 WELL HISTORY	county Kingman County, Kansas
DESCRIPTION OF WELL AND LEASE	<u>C-W/2 - E/2- SE</u> sec. <u>21</u> Twp. <u>29S</u> Rge. <u>7</u> <u>xx</u> w
Operator: License # 6236	1465 Feet from SN (circle one) Line of Section
Name: MTM Petroleum, Inc.	1070 Feet from EW (circle one) Line of Section
Address P.O. Box 82, NSS	Footages Calculated from Nearest Outside Section Corner: NE, SE, NW or SW (circle one)
City/State/Zip Spivey, Kansas 67142-0082	Lease Name   Graber: "B"   Well # 1
Purchaser:	Producing Formation
Operator Contact Person: Marvin Miller	Elevation: Ground 1539 KB 1547
Phone ( <u>316</u> ) <u>532–3794</u>	Total Depth 4517 PBTD 4500'
Contractor: Name: Duke Drilling Co., Inc.	Amount of Surface Pipe Set and Cemented at 275 Feet
License:5929	Multiple Stage Cementing Collar Used? Yes No
Wellsite Geologist: <u>Jerry Smith</u>	If yes, show depth set Feet
Designate Type o Completion New Well Re-Entry Workover	If Alternate II completion, cement circulated from
Oil SWD SIOW Temp. Abd. X Gas ENHR SIGW	feet depth to w/ sx cmt.
X Gas ENHR SIGW Other (Core, WSW, Expl., Cathodic, etc)  If Workover:	Drilling Fluid Management Plan AHT 7 - 8 - 98 U. (Data must be collected from the Reserve Prit)
Operator:	Chloride content 20,000 ppm Fluid volume 240 bbls
Well Name:	Dewatering method used Hauled Offsite
Comp. DateOld Total Depth	Location of fluid disposal if hauled offsite:
Deepening Re-perf. Conv. to Ini/SWD	Operator Name Messenger Petroleum
Plug Back PBTD  Commingled Docket No.  Dual Completion Docket No.  Other (SWD or Inj?) Docket No.	Lease Name Nicholas SWD License No. 4706
02-09-98	Quarter Sec. 20 Twp. 30S s Rng.8W E/W  County Kingman Docket No. D-27, 434
- Room 2078, Wichita, Kansas 67202, within 120 days of the Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on 12 months if requested in writing and submitted with the months). One copy of <u>all</u> wireline logs and geologist well results by ATTACHED. Submit CP-4 form with all plugged well.	side two of this form will be held confidential for a period of form (see rule 82-3-107 for confidentiality in excess of 12 report shall be attached with this form. All CEMENTING TICKETS
with and the statements herein are complete and correct to the	ne best of my knowledge.
Signature / A. Miller, Presidentate 5	K.C.C. OFFICE USE CHLY  F Letter of Confidentiality Attached  C Wireline Log Received
Subscribed and sworn to before me this $2lath$ day of $\underline{Ma}$ 19 $\underline{99}$ .	C Geologist Report Received
Notary Public Kathy Hiel	Distribution  KCC SMD/Rep NGPA  KGS Plug Other
Date Commission Expires 01-04-99	(Specify)
KATHY HILL  Notary Public - State of Kansas  My Appt. Expires 01-04-99	Michita, Kansas   Forma ACO-1 (7-91)

			PINE INC							
Operator, Name MTM	Petroleum,	Tnc.	. Lease Name	<u>Grab</u>	"B"	Well #				
21 - 20	. 7	East	County]	Kingman C	unty, Kans	as				
Sec. 21 Tup. 29	Rge. /	🖾 <sub>Vest</sub>					•			
INSTRUCTIONS: Show interval tested, tim hydrostatic pressures if more space is need	e tool open a , bottom hole :	nd closed, flowing a temperature, fluid re	and shut-in pre	ssures, whet	her shut-in pro	essure read	ched static level			
Drill Stem Tests Take		x⊠ <sub>Yes</sub> □ <sub>No</sub>	Log		on (Top), Depth	and Datums	Sample			
Samples Sent to Geolo	gical Survey	xx yes □ No	Name		гир		Datum			
Cores Taken	,	☐ Yes ☐ No		Heebner SH. 3097 (-1550) 3103 Lansing 3328 (-1781) 3335						
Electric Log Run Yes No (Submit Copy.)			B./Kan Missis	B./Kansas City 3825 (-2278) 3834 Mississippian 4103 (-2556) 4109 Kinderhook SH. 4383 (-2836) 4390						
List All E.Logs Run:					• 4383 (- 4470 (-292		4390 4477			
al Induction	Laterlog				(-2954)	=	4477 4508			
mpensated Den	sity Dual	Spaced Neut			<i></i> ,					
mputer Analyz	ed Log									
	Donost al	CASING RECORD	New XX U		production at					
	<del>,                                      </del>	<del></del>		T	T	Τ	T			
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"	24#	275	60/40 Poz	1.75	3%cc 2%ge1			
Production	7-7/8"	4-1/2"	10.5#	4350'	ASC	125	5# KolSea			
		·			<u> </u>		<u></u>			
	ADDITIONAL CE	EMENTING/SQUEEZE RECO	ORD							
Purpose: Depth Top Bottom		Type of Cement	#Sacks Used	Type and Percent Additives						
Protect Casing			-							
Plug Back TD Plug Off Zone										
	<u>.                                    </u>									
Shots Per Foot	PERFORATION RECORD - Bridge Plugs S Specify Footage of Each Interval Perfo			Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth						
4 4104' to 4109'		4109'		25# Delta Frac 411		4110'				
					•					
TUBING RECORD	Size 2 3/8	S" Set At 4132'	Packer At	Liner Run	☐ Yes ₺					

Water 60 Bbls. 10:1 Estimated Production Per 24 Hours Production Interval Disposition of Gas: METHOD OF COMPLETION Open Hole X Perf. Dually Comp. Commingled Vented Sold Used on Lease (If vented, submit ACO-18.) Other (Specify)

Hcf

Date of First, Resumed Production, SWD or Inj.

Bbls.

Gas

40

5-18-98

Producing Method Flowing Denmoing Gas Lift Other (Explain)

Gas-Oil Ratio

Gravity

#### ALLIED CEMENTING CO., INC.

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665	SERVICE POINT:					
DATEQ-Q-98 4 215 710	CALLED OUT	ON LOCATION	JOB START JOB FINI			
LEASEGRADER WELL # 13 # 2 LOCATION RAGO	Tal-114		COUNTY STATE			
OLD OR NEW (Circle one)			W- (Thrains)			
	-					
CONTRACTOR DUKE DOG #1	<u>OWNER</u>	_ m_Tm_	<u>letroleum</u>			
TYPE OF JOB SURPACE CSO	<u>-</u>		CEMENT			
HOLE SIZE 12 14 T.D. 277						
CASING SIZE 85/8 X 24 DEPTH 276	_ AMOUNT OR	DERED 1753	3xs: 60/40			
TUBING SIZE DEPTH	- XXOLACI	2+2%Ce1				
DRILL PIPE 4'b xhole DEPTH 277		···				
PRES. MAX 200 MINIMUM (00)	$\mathcal{A}$	105	<b>©</b>			
MEAS, LINE SHOE JOINT	POZMIX	70				
CEMENT LEFT IN CSG. L54.	GEL	3				
PERFS.	CHLORIDE_	Б				
	4 . · ·		_@ _			
EQUIPMENT			_@			
	1		_@			
PUMPTRUCK CEMENTER And Drelling	· · · · · · · · · · · · · · · · · · ·		_@			
#266 HELPER FLOST HAIT		1775.	_@			
BULK TRUCK	- HANDLING _ MILEAGE	175 × 45	_@			
#301 DRIVER John Helley	WILLEAGE	<u> </u>				
BULK TRUCK						
# DRIVER	_	y				
	•					
REMARKS:		SERVI	CE			
mix+ from 1759xs 60/40/20/0Ge 3%CALLE Displace Plug W/ 1634Bbs. Fresh Ho. Shuttin Coment Cirr to Surface		K CHARGE <u>O</u> C TAGE				
CHARGE TO: DCKe Dry. Co.  STREET Box 823  CITY Sunt STATE Ko. ZIF6.7.5.	30	FLOAT EQU	IPA			
To Allied Cementing Co., Inc.	TAX					

CONDITIONS" listed on the reverse side.

You are hereby requested to rent comenting equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND

### ORIGINAL

### CEMENTING LOG

STAGE NO.

CEMEN	TING CO.,	_			-	CEMENT DATA:	: .		
Date <u>2-18-</u> 9			e Lodge	icket No. 58	<u>4·l</u>	Spacer Type: _	MU250	veep 300 Gal	
Company A		oleum	R	ig Duke =	<u>" / </u>	Amt	Sks Yield	ft³/sk Density	PPG
Lease Sycal				Vell No.			<del></del> .		
County King Location XA	bo tet	34 N	S	tate <u>K5-</u> eld <u>21-24</u>	-7	TST L LEAD: Pump Tir	me	/ hrs. Type ASC+ 5	- Kr.1-500
CASING DATA:	PT	A □ Squ	ueeze □			$\frac{1}{\Delta_{\rm mt}}$ /25	Ske Vield /	Excess	.S PPG
	Intermediat	e 🗆 Produ	iction 🖳		Liner 🗆 💛			hrs. Type C: YD:	
Size	rype	vvei	ynt <u>, , , , , , </u>	Collai		Amt. 25	Sks Yield	40 ft³/sk Density 14.	/ PPG
						WATER: Lead	gals	s/sk Tail 723 gals/sk Total 25	Bbls.
Casing Depths: To	op <i>1</i> B		_ Bottom	+250		Pump Trucks Us	sed <u>255-2</u>	65 - 5 Have Win	500
	•							Wark Erun Go	21 DT
			-	1			, )	<u> </u>	
Drill Pipe: Size _	45	\A/oiaht	14.60	Collars		•		yi.	
Open Hole: Size _	12			P.B. to		Float Equip: Mar	nufacturer <u>Frin</u>	<u> </u>	
CAPACITY FACT	ORS:					Shoe: Type Ke	earlar 6	uide shoe Depth 4	250
Casing:				зы. <u>62.70</u>			311 Inser	Depth 42	2.12
Open Holes:				3bl. 11-59				Plugs Top Kubber Btm.	
Drill Pipe:	Bbls/Lin. ft	-/1671	Lin. ft./E	3bl			1 - Baske		
Annulus:	Bbls/Lin. ft. 🕰					Special Equip	freely and an	Amt. 685 Bbls. Weight	
Perforations: F	Bbls/Lin. ft. <u>·</u> -rom			3bl		Mud Type	•	Amt. 120 2 Bbls. Weight 4	
renorations. I	10111					ivida Type	•	vveignt _	
COMPANY REPR	ESENTATIVE <u>. [</u>	An (	tumill	£ 1-	<del>-</del>	CEMENTER _	Carl Bal	ldina	•
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# ALLIED EMENTING CO., INC. 5841

REMIT TO P.O. I	BOX 31 SELL, KA	.NSAS 67	665	SERVICE POINT:					
DATE 2-18-98	SEC.	TWP. 29	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH		
		1	1 0 .	-1 n	V/-	COUNTY	STATE /		
LEASE MILE	WELL#		LOCATION (age ]	it 54 M,	1/5	Kivanian	K5-		
OLD OR NEW (C	Circle one)		<i>0</i>	-		J			
CONTRACTOR .	·-			OWNER	_ mtm	Petroles	JW.\		
TYPE OF JOB				_		CEMENT			
HOLE SIZE	- الحال	<u>T.J</u>		-	1/1 S	- NCI	The said		
CASING SIZE	3 x 10-		EPTH 4250.		RDERED <u>125</u> 0:40:4	5X HOLT	> MCI-Seal		
TUBING SIZE DRILL PIPE		•	EPTH EPTH		at Midsu	1:00			
TOOL			EPTH	<u></u>	CA MINUS	JEF/ S			
PRES. MAX /C	<u> </u>		INIMUM FO	COMMON		@			
MEAS. LINE	<del></del>		HOE JOINT 37.51	POZMIX					
CEMENT LEFT I	N CSG.	~~	1020011107-3	GEL			-		
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To Allied Cemer	_			ТОТАТ СЦА	RGE				
	_		ementing equipment				<del></del>		
and furnish cem		_		DISCOUNT -		IF PA	ID IN 30 DAYS		
			The above work was						
		-	n of owner agent or						
contractor. I have CONDITIONS"			nd the "TERMS AND se side.	,					

DEFINITIONS: In these terms and conditions, "Allied" shall mean Allied Cementing Co., Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

- —TERMS: Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "ALLIED" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "ALLIED," refunded directly to "CUSTOMER." For purposes of this paragraph, ALLIED and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.
- —ATTORNEY FEES: In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees.
- —PRICES AND TAXES: All merchandise listed in "ALLIED'S" current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.
- —TOWING CHARGES: ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by CUSTOMER.
- —PREPARATION CHARGES: If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the cancellation.
- —DEADHAUL, CHARGES: Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.
- —SERVICE CONDITIONS AND LIABILITIES: 1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:
- (A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:
- (B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.
- 2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.
- 3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.
- WARRANTIES: 1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.
  - 2. More specifically:
- (A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.
- (B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the wilful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.
- (C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.