API NO. 15- 033-20962 0000

County Comanche County, Kansas

BE ITPED				
STATE CORPOR	RATION C	OMMISSI	ON OF	KANSAS
OIL & GAS	S CONSER	VATION	DIVISI	ON
WELL	COMPLET	ION FOR	M	
ACO:	-1 WELL	HISTORY		
DESCRIPT	ION OF W	IELL AND	LEASE	חוגר
license #	4548			JNH

ACO-1 WELL HISTORY DESCRIPTION OF WELL AND LEASE & I - I - I - I - I - I - I - I - I - I	NW - NW - SE - Sec. 4 Twp. 33 Rge. 16 ** W
Operator: License # 4548 CONFIDENT	2555 Feet from (S) (circle one) Line of Section
Name: ONEOK Resoures Company	
Address P.O.Box 871	Footages Calculated from Nearest Outside Section Corner:
STA	(NE) SE, NW or SW (circle one)
City/State/Zip Tulsa, OK 74102-8871	Lease Name Herrington Well # 1-4
Burchase KGS	rield Name Shimer
Operator Contact Person: Daryl Duvall 중인 기	Producing Formation Mississippi
Phone (918) 588-7711	Elevation: Ground 1796' KB 1804'
	Total Depth
Contractor: Name: Duke Drilling Co., Enc. PCUG	Amount of Surface Pipe Set and Cemented at $\underline{551}$
Wellsite Geologist: Harold Trap	Multiple Stage Cementing Collar Used? Yes X No
	If yes, show depth set Feet
Designate Type of CompletionX_ New Well Re-Entry Workover	If Alternate II completion, cement circulated from
OilSWDSIOWTemp. AbdSIGW	feet depth to w/ sx cmt.
* Gas ENHR SIGW Other (Core, WSW, Expl., Cathodic, etc)	Drilling Fluid Management Plan Alf / 1-6-99 U.C. (Data must be collected from the Reserve Pit)
If Workover:	(Data must be collected from the Reserve Pit)
Operator:	Chloride content $\frac{70,000}{\text{ppm}}$ Fluid volume $\frac{1360}{\text{bbls}}$
Well Name:	Dewatering method used Pit was not used used Pyle 4-1
Comp. DateOld Total Depth	Location of fluid disposal if hauled offsite:
Deepening Re-perf Conv. to Inj/SWD	Operator Name KWB Oil & Gas
Plug Back PBTD Commingled Docket No. Dual Completion Docket No.	,
Dual Completion Docket No Other (SWD or Inj?) Docket No	Lease Name Harmon SWD License No. 5993
07/27/98 08/07/98 11/20/98	Quarter Sec. 11 Twp. 33 S Rng. 20 E
Spud Date Date Reached TD Completion Date	County Comanche Docket No. CD 98329
- 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 th months). One copy of <u>all</u> wireline logs and geologist well	be filed with the Kansas Corporation Commission, 130 S. Market spud date, recompletion, workover or conversion of a well. side two of this form will be held confidential for a period of e form (see rule 82-3-107 for confidentiality in excess of 12 report shall be attached with this form. ALL CEMENTING TICKETS lls. Submit CP-111 form with all temporarily abandoned wells.
All requirements of the statutes, rules and regulations promut with and the statements herein are complete and correct to t	gated to regulate the oil and gas industry have been fully complied he best of my knowledge.
Signature Day K. Durk	K.C.C. OFFICE USE ONLY
	F Letter of Confidentiality Attached C Wireline Log Received
Subscribed and sworn to before me this 20th day of MA	C Geologist Report Received

Signature

District Engineer

Date 11/20/98

Subscribed and sworn to before me this 20th day of November,

19 98.

Notary Public Llouis Buchanan

Date Commission Expires

Notary Public Filetter of Confidentiality Attached Commission Expires

K.C.C. OFFICE USE ONLY

Letter of Confidentiality Attached Commission Expires

Notary Public Filetter of Confidentiality Attached Commission Expires

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K.C.C. OFFICE USE ONLY

Letter of Confidentiality Attached Commission Expires

C Wireline Log Received

C Wireline Log Received

KCC SWD/Rep NGPA

KGS Plug Other (Specify)

MAY 0 6 2000

Form ACO-1 (7-91)

See	Openaton Name ONEO	K Resource	s Company	Lease Name	Herring	gton	_ Well #	1-4	
NSTRUCTIONS: Show important tops and base of formations pometrated, libital cores. Report all drill stem tests glving natural tested, time tool open-end closed, flowing and shut-in pressures, whether shut-in pressure reached static level, dyndrostatic pressures, bottee hold temperature, I fluid recovery, and flow rates if gas to surface during test. Attach extra sheet f more space is needed. Attach copy of lea. Fill Stem Tests Taken Yes			East						
NSTRUCTIONS: Show important tope and base of formations pometrated, idea in the case of interval tested, time tool open and clased, floring and shut-in pressure received static tested from the control of the control	Sec. <u>4</u> Twp. <u>33</u>	Rge. <u>16</u>	x West			•			
Action Additional Sheets.) Amone Top Datum Heebner, 4034 - 2233 Douglas 4097 - 2293 Lansing 4215 - 2411 Pawnel 4790 - 2986 Cherokee Shale 4828 - 3024 Cherokee Shale 4828 - 3024 Cherokee Shale 4870 - 3066 Littho-Density- Copensated Neutron, Micro-Log, CBL, Geologist Log CASING RECORD Neight 584 No Nosissispi. ADDITIONAL CEMENTING/SQUEEZE RECORD Purpose: Perforate Protoct Casing Plug Bock TO Plug Bock TO Plug Sot/Type Specify Footage of Each Interval Perforated (Amount and Kind of Material Used) A Spf 4878-4885 Az 1000gals 15% NE acid Frac w/ 750bbl gelled water & 145,000 f 12/20 sand - CO2 Foam TUBING RECORD Size Set At Packer At Liner Run yes No TUBING RECORD Size Set At Packer At Liner Run yes No TUBING RECORD Size Set At Packer At Liner Run Neight 19 No TUBING RECORD Size Set At Packer At Liner Run Neight 19 No TUBING RECORD Size Set At Packer At Liner Run Neight 19 No TUBING RECORD Size Set At Packer At Liner Run Neight 19 No TUBING RECORD Size Set At Packer At Liner Run Neight 19 No TUBING RECORD Size Set At Packer At Liner Run Neight 19 No TUBING RECORD Size Set At Packer At Liner Run Neight 19 No TUBING RECORD Size Set At Packer At Liner Run Neight 19 No TUBING RECORD Siz	interval tested, time hydrostatic pressures,	e tool open ar , bottom hole t	and base of formatind closed, flowing a memberature, fluid re	and shut-in pres	sures, wheth	er shut-in pres	ssure read	ched static level	
Repert at the first repert of the first repert re			₩ Yes No	X Log	Formation	(Top), Depth a	and Datums	Sample	
Vec No No No No No No No N	Samples Sent to Geolo	gical Survey	Yes No	. 4	garage and		-		
Section Sect	Cores Taken		Yes 🔀 No	Douglas	f :	4097	-	- 2293	
State E.logs Run: Array Induction Imager, Conglomerate 4870 -3066 4896 -3092	Electric Log Run (Submit Copy.)		Yes No	Pawnel		4790	•	- 2986	
Mississippi 4896 -3092 Mississippi 4896 -3092 Mississippi 4896 -3092 Mississippi 4896 -3092 Mississippi 4896 -3092 CASING RECORD	List All E.Logs Run:	Array Indu	ction Imager,			4870	-	- 3066	
CASING RECORD Report all strings set-conductor, surface, intermediate, production, etc. Purpose of String Size Hole Drilled Size Casing Set (In O.D.) Set		-		Mississ:	ippi	4896	-	- 3092	
Report all strings set-conductor, surface, intermediate, production, etc. Purpose of String	Micro-Log, CBL,	Geologist	Log		the file				
Report all strings set-conductor, surface, intermediate, production, etc. Purpose of String			CASING RECORD			······································		 	
Drilled Set (In 0.5.) Lbs./Ft. Depth Cement Used Additives		Report al	l strings set-condu			production, etc	: .		
Surface 12-1/4" 8-5/8" 24# 551 60/40 Poz 300 3%cc 2%gel Production 7-7/8" 4-1/2" 10.5# 5080 Class A 200 ADDITIONAL CEMENTING/SQUEEZE RECORD Purpose: Perforate Protect Casing Plug Back TO Plug Off Zone PERFORATION RECORD - Bridge Plugs Set/Type Shots Per Foot Specify Footage of Each Interval Perforated (Amount and Kind of Material Used) Depth 4 spf 4878-4885 Az 1000gals 15% NE acid 4 spf 4888-4904 Frac w/ 750bbl gelled water 8 145,000# 12/20 sand - C02 Foam TUBING RECORD Size Set At Packer At Liner Run Set Surface No. TUBING RECORD Size Set At Packer At Liner Run Set Surface No. TUBING RECORD Size Set At Packer At Liner Run Set Surface No. TUBING RECORD Size Set At Packer At Liner Run Set Surface No. TUBING RECORD Size Set At Packer At Liner Run Set Surface No. Date of First, Resumed Production, SWD or Inj. Producing Method Flowing Pumping Gas Lift Other (Explain) Waiting on Pipeline Estimated Production Per 24 Hours Disposition of Gas: METHOO OF COMPLETION Production Interval Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled	Purpose of String		-		1 . – 1				
Production 7-7/8" 4-1/2" 10.5#, 5080' Class A 200 ADDITIONAL CEMENTING/SQUEEZE RECORD Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone Shots Per Foot Specify Footage of Each Interval Perforated 4 spf 4878-4885 Az 1000gals 15% NE acid 4 spf 4888-4904 Frac w/ 750bbl gelled water & 145,000# 12/20 sand - C02 Foam TUBING RECORD Size Set At Packer At Liner Run 2-3/8" 4784' Date of First, Resumed Production, SMD or Inj. Waiting on Pipeline Estimated Production Per 24 Hours Disposition of Gas: METHOO OF COMPLETION Production Interval Open Hole Perf. Dually Comp. Commingled (If yented Sabrit ACC-18.)	Conductor		20"	48#	541		8yds		
ADDITIONAL CEMENTING/SQUEEZE RECORD Purpose:	Surface	12-1/4"	8-5/8"	24#	551	60/40 Poz	300	3%cc 2%gel	
Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone Perforate Protect Casing Plug Back TD Plug Off Zone Perforate Protect Casing Plug Back TD Plug Off Zone Perforation Record - Bridge Plugs Set/Type Shots Per Foot Specify Footage of Each Interval Perforated 4 spf 4878-4885 Az 1000gals 15% NE acid Az 1000gals 15% NE acid Frac w/ 750bbl gelled water \$145,000 12/20 sand - C02 Foam TUBING RECORD Size Set At 2-3/8" 4784' Date of First, Resumed Production, SWD or Inj. Waiting on Pipeline Estimated Production Per 24 Hours Disposition of Gas: METHOD OF COMPLETION Production Interval Open Hole Perf. Dually Comp. Commingled	Production	7-7/8"	4-1/2"	10.5#	5080	Class A	200		
Perforate		ADDITIONAL C	EMENTING/SQUEEZE REC	ORD					
Protect Casing Plug Back TO Plug Off Zone Plug Off Zone	Purpose:		Type of Cement	#Sacks Used	T	ype and Percent	t Additive	es	
PREFORATION RECORD - Bridge Plugs Set/Type Shots Per Foot	Protect Casing								
Shots Per Foot Specify Footage of Each Interval Perforated (Amount and Kind of Material Used) Depth 4 spf 4878-4885 Az 1000gals 15% NE acid 4 spf 4888-4904 Frac w/ 750bbl gelled water & 145,000# 12/20 sand - CO2 Foam TUBING RECORD Size Set At Packer At Liner Run Yes No Date of First, Resumed Production, SWD or Inj. Producing Method Flowing Pumping Gas Lift Other (Explain) Estimated Production Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity Disposition of Gas: METHOO OF COMPLETION Production Interval Open Hole Perf. Dually Comp. Commingled (If vented Submit ACO-18.)									
4 spf 4888-4904 Frac w/ 750bbl gelled water & 145,000# 12/20 sand - CO2 Foam TUBING RECORD Size Set At Packer At Liner Run 2-3/8" 4784" Date of First, Resumed Production, SMD or Inj. Producing Method Waiting on Pipeline Estimated Production Per 24 Hours Disposition of Gas: METHOD OF COMPLETION Vented SSold Used on Lease (If vented submit ACO-18.) Frac w/ 750bbl gelled water & 145,000# 12/20 sand - CO2 Foam A 145,000# 12/20 sand - CO2 Foam Water Run Yes No Other (Explain) Production Interval Open Hole Perf. Dually Comp. Commingled	Shots Per Foot								
Size Set At Packer At Liner Run Yes No	4 spf	4878-488	35		Az 1000g	als 15% NE	acid		
TUBING RECORD Size 2-3/8" 4784' Date of First, Resumed Production, SWD or Inj. Waiting on Pipeline Estimated Production Per 24 Hours Disposition of Gas: METHOD OF COMPLETION Vented Sold Used on Lease Open Hole Packer At Liner Run Pes No Producing Method Flowing Pumping Gas Lift Other (Explain) Production Interval Open Hole Perf. Dually Comp. Commingled	4 spf	4888-490)4		Frac w/ 750bbl gelled water				
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Per 24 Hours Disposition of Gas: METHOD OF COMPLETION Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled			, SWD or Inj. Prod	ucing Method		mping Gas L	ift O	ther (Explain)	
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(if vented submit ACO-18.)	Disposition of Gas:	_		. — — — — — — — — — — — — — — — — — — —			<u>.</u> .		
Other (Specify)			· —				ingled		
	(1) volition, dut		Othe	er (Specify)			74.00	<u> </u>	

ALLIED CEMENTING CO., INC. Federal Tax I.D.# 48-0727860

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665

ORIGINAL POINT:

PRINTÉD NAME

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DATE 7-217-98	SEC.	TWP.	RANGE		CALLED C	OUT AWY	ON L	OCATION	JOB S	TART	JOB FIN	
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To Allied Cement	ting Co., I	Inc.										
You are hereby re	equested t	o rent cen	nenting equipm	ent							_	
and furnish cemer	nter and h	nelper to a	ssist owner or							TOTA	ւ	
contractor to do v	vork as is	listed. The	ne above work	was								
done to satisfaction	on and su	pervision	of owner agent	or	ТАХ				_			
contractor. I have)							
CONDITIONS" I					TOTA	AL CHA	RGE -					
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SIGNATURE C	15	Pone	Amele	<u> </u>	J	OLAN	· . T.	PR	NO.	0/10		

GENERAL TERMS AND CONDITIONS

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.



CEMENTING LOG ORIGINAL

THANK YOU

Date 1)-27-	98 Distri	cilledicin	e locas T	icket No. 9639		pacer Type:Bls
AND SECOND A	le oke			ig Duke	-1	Amt Sks Yield ft³/sk Density PPG
Lease //eli	matten			Vell No/		
County	andke_	P	S	tate K5/	10 1	- Sec. 2 - 2
Location	TRUCH !	MJ =	25,Fi	eld 4-3/35-		EAD: Pump Time hrs. Type
72 / 522) 1/5		1_			Atlo-seal Excess
CASING DATA:			ueeze 🗆			Amt. Sks Yield 97 ft³/sk Density 25 PPG
Surface Size	Intermedia		ight 24			All: Pump Time hrs. Type Excess
Size	Туре	vvei	gnt — 1	Collar		Amt. Sks Yield Sks Yield PPG
- F-100	*			1		VATER: Lead 10.9 gals/sk Tail 5 gals/sk Total 6 Bbls.
Casing Depths: 1	Top K8		Bottom	5/.	P	tump Trucks Used 25-265 SHarry Willson
						oulk Equip. 356 = 251 Mark Bron ARD +
			LUV	LIDEVE	TAR -	
			CUIV	II IDLAM	IHL	A Said of the Asset A
Drill Pipe: Size	de total	Weight		Collars		
Open Hole: Size		T.D	ft.	P.B. to	ft. F	loat Equip: Manufacturer
CAPACITY FACT				672	S	hoe: Type Depth
Casing:		CE3D				loat: Type Depth
Open Holes:				3bl		Centralizers: Quantity Plugs Top Btm
Drill Pipe:		CN35	Lin. ft./E	13 /1		tage Collars
Annulus:		Norman .		Bbl,		pecial Equip.
Perforations:	From			ft. Amt		Aud Type S A S Meight PPG
TOTOGRAPHICAL P		Yes You				N ACE
COMPANY REPR	RESENTATIVE	FJW.	Mill	uster 1		CEMENTER LA BOLD SALES
TIME	PRESSU	IRES PSI	FLU	JID PUMPED I		REMARKS
AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	HEMARKS IS
0.45					RELENS	En Location & Ray
7						home
	No. 1	1 m			MAY 11 0	on tottom break circulation
V T			S.E. C.E.E.	487	1	DENTIAL PUMP.
11:30	50		2	1.5FRO	VI CON	Start treshwater DAX
1 वेव	1100		TIS	h.	-	MIX + Auma 200 3x 65/35 6+327 / 10-56
17.84	750		98	23	7	MX +1 PVM & 100 SX CLASS AL 3 2004 27 ac
			- NO.			Ewitch values + Release plus
11-9%			11			Start Displacement
12:00	200/		132	J Y E	4-5	Designe with 34 alls
	1			2	700	Try shorter
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19.70	200					Content Didorculate
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BLEEDBACK

PSI BUMP PLUG TO

FINAL DISP. PRESS: Taylor Printing, Inc., Pratt, KS

STATE CORPORATION COMMISSIF & KANSAS	API NO. 15- 033-20962-0000
OIL & GAS CONSERVATION L SION WELL COMPLETION FORM & ROUSER	1 1 3 °C F 1 cop // 1 C F 1 cop
ACO-1 WELL HISTORY DESCRIPTION OF WELL AND LEASE	NW - NW - SF - Sec. 4 Twp. 33 Rge. 16 - 8
Operator: License # 4548	2555 Feet from SYN (circle one) Line of Section
Name: ONEOK Resoures Company	Feet from E/W (circle one) Line of Section
Address P.O.Box 871	Footages Calculated from Nearest Outside Section Corner: (SE) NW or SW (circle one)
	Lease Name Herrington Well # 1-4
City/State/Zip Tulsa, OK 74102-0871	Field Name Shimer
PurchaseKGS	Producing Formation Mississippi
Operator Contact Person: Daryl Duvall 8	
	Elevation: Ground 1796' KB 1804'
Contractor: Name: Duke Drilling Co. P. Enc 2	Total Depth 5100' PBTD 5006'
License: 5929 - Range	Example 2 Amount of Surface Pipe Set and Cemented at $\frac{551}{}$ Feet
Wellsite Geologist: Harold Trap	Multiple Stage Cementing Collar Used? Yes X No
Designate Type of Completion	If yes, show depth set Feet
X New Well Re-Entry Workover	If Alternate II completion, cement circulated from
Oil SWD SIOW Temp. Abd.	feet depth to sx cmt.
R# Gas ENHR SIGN Ory Other (Core, WSW, Expt., Cathodic, etc)	Drilling Fluid Management Plan
If Workover:	(Data must be collected from the Reserve Pit)
Operator:	Chloride content 70,000 ppm Fluid volume 1360 bbls
operator:	chtdride contentppm rtuid volumebots
•	
Well Name: FROM CONFIDENCE	
Well Name: FROM CONFIDENTIAL Comp. Date Old Total Depth	Dewatering method used Pit was not used used Pyle. Location of fluid disposal if hauled offsite:
Well Name: FROM CONFIDENTIAL Comp. Date Old Total Depth Deepening Re-perf. Conv. to Inj/SWD Plug Back PBTD	Dewatering method used Pit was not used used Pyle. Location of fluid disposal if hauled offsite: Operator Name KWB Othl & Gas
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Operator Name UNEC	JK Resource	es Company	Lease Name	Herrin	gton	_ Well #	1-4
		East	County Co	omanch	ounty, Kans	as	
Sec. 4 Twp. 33	_ Rge16	west				OR.	IGINAL
INSTRUCTIONS: Show interval tested, tim hydrostatic pressures if more space is need	e tool open a , bottom hole t	nd closed, flowing a cemperature, fluid re	and shut-in pres	sures, whet!	her shut-in pre	ssure read	hed static level
Drill Stem Tests Take		₩ Yes No	X Log	Formatio	n (Top), Depth a	and Datums	Sample
Samples Sent to Geold	ogical Survey	∰ Yes □ No	Name		т ор 4034	_	Datum - 2230
Cores Taken Yes 3 No			Heebner Douglas		4034 4097		- 2293
Electric Log Run		Yes No	Lansing Pawnel		4215 4790		-2411 -2986
(Submit Copy.)			Cherokee	e Shale	4790		-3024
List All E.Logs Run:			Conglome		4870		-3066 3003
Litho-Density-Micro-Log, CBL,			Mississi	ippi	4896	_	- 3092
Micro-Log, Cbb;	, 000108100	. 505					
	·	CASING RECORD	· · · · · · · · · · · · · · · · · · ·				
	Report al	L strings set-conduc	New Us		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
Conductor		20"	48#	54'		8yds	•
Surface	12-1/4"	8-5/8"	24#	551'	60/40 Poz	300	3%cc 2%gel
Production	7-7/8"	41/2"	10.5#	50801	Class A	200	
<u> </u>	ADDITIONAL C	EMENTING/SQUEEZE REC	ORD	• • • • • • • • • • • • • • • • • • •	·;·		
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Sacks Used Type and Percent Additives			
Protect Casing							
Plug Off Zone							
Shots Per Foot		RECORD - Bridge Pluge of Each Interval (Fracture, Shot, d Kind of Mater		rueeze Record Depth
4 spf	4878-488	85	a the kine that	Az 1000g	gals 15% NE	acid	
4 spf	4888-490	H Been hove turn at	in the time that	Frac w/	750bbl gell	ed wate	er
		MAY 0	6 200 0	& 145,00	00# 12/20 sa	ind - Co	02 Foam
							
TUBING RECORD	Size 2-3/8"	FROM CON Set At 4784'	Packer At	Liner Run	☐ yes 選	No 1 11	
Date of First, Resu			ucing Method	lowing Pu	mping Gas L	ift 🗆 o	ther (Explain)
Estimated Production Per 24 Hours	n oil	Able Gee		a Phia	Con-Oil	gario.	Geavity
Disposition of Gas:	METHOD O	F COMPLETION		Pi	Logic i do Oliver	MON COM	AIBBOO.
Vented Sold (If vented, su			Hole 🗓 Perf.	Dually	y Comp.	ijngleb/yy	
·		U Othe	er (Specify)		CONSERVA	TION DIVISI a. Kansas	0 N