STATE CORPORATION COMMISSION OF KANSAS	API NO. 15 135-23252 . DDG(_)
OIL & GAS CONSERVATION DIVISION WELL COMPLETION OR RECOMPLETION FORM	CountyNess
ACO-1 WELL HISTORY DESCRIPTION OF WELL AND LEASE	NW. SE. SW. Sec.31. Twpl.7S. Rge. 23 West
	0001
Operator: License # 8759  Name Mack Energy Co. Address P.O. Box 400	
City/State/Zip Duncan, OK 73534	Lease NameLULA
Permian Oil Corp.	Field Name. Pfannenstiel Munus
*******************************	Producing FormationCherokee Sand
Operator Contact Person 0.D. Mellott Phone 1-405-233-6230	Elevation: Ground 2387 GL KB 2396 KB Section Plat
Contractor: License # .5146 Rains & Williamson Oil Co., Inc.	5280 4950 4620
Wellsite GeologistCasey Galloway 1-317-267-7355	4290 3960 3630 3300 2970
Designate Type of Completion  X New Well Re-Entry Workover	2640 2640 2310 1980 1650
X 011 SWD Temp Abd Gas Inj Delayed Comp.	1320
Ory Other (Core, Water Supply etc.)	660
If OWNO: old well info as follows:	5280 4950 4950 4290 3390 2970 2310 1980 1320 1320 3300 3300 3300 3300 3300 330
Operator ••••••••••••••••••••••••••••••••••••	
Comp. DateOld Total Depth	MATER SUPPLY INFORMATION Disposition of Produced Water: X Disposal
WELL HISTORY	Docket #
Drilling Method:	
v Mud Rotary Air Rotary Cable	Questions on this portion of the ACO-1 call:
<u>X</u> Mud Rotary <u>Air Rotary Cable</u>	Questions on this portion of the ACO-1 call: Water Resources Board (913) 296-3717
6-15-88 6-22-88 7-15-88	Water Resources Board (913) 296-3717 Source of Water:
6-15-88 6-22-88 7-15-88  Spud Date Date Reached TD Completion Date	Water Resources Board (913) 296-3717  Source of Water:  Division of Water Resources Permit #
6-15-88 6-22-88 7-15-88  Spud Date Date Reached TD Completion Date  4475' 4420'	Water Resources Board (913) 296-3717 Source of Water:
6-15-88 6-22-88 7-15-88  Spud Date Date Reached TD Completion Date  4475' 4420'  Total Depth PBTD	Water Resources Board (913) 296-3717  Source of Water:  Division of Water Resources Permit #
6-15-88 6-22-88 7-15-88  Spud Date Date Reached TD Completion Date  4475' 4420'  Total Depth PBTD  Amount of Surface Pipe Set and Cemented at 229' feet	Water Resources Board (913) 296-3717  Source of Water: Division of Water Resources Permit #  GroundwaterFt North from Southeast Corner (Well)Ft West from Southeast Corner of Sec Twp RgeEastWest  X Surface WaterFt North from Southeast Corner
6-15-88 6-22-88 7-15-88  Spud Date Date Reached TD Completion Date  4475' 4420'  Total Depth PBTD  Amount of Surface Pipe Set and Cemented at 229'feet  Multiple Stage Cementing Collar Used? X Yes XNo  If yes, show depth set 325 feet	Water Resources Board (913) 296-3717  Source of Water:  Division of Water Resources Permit #
6-15-88  Spud Date  Date Reached TD  Completion Date  4475'  4420'  Total Depth  PBTD  Amount of Surface Pipe Set and Cemented at 229' feet  Multiple Stage Cementing Collar Used? X Yes XNo  If yes, show depth set	Water Resources Board (913) 296-3717  Source of Water: Division of Water Resources Permit #  GroundwaterFt North from Southeast Corner (Well)Ft West from Southeast Corner of Sec Twp Rge East West  X Surface WaterFt North from Southeast Corner (Stream,pond etc)Ft West from Southeast Corner Sec Twp Rge East West Drilling contractor purchased water from
6-15-88  Spud Date  Date Reached TD Completion Date  4475'  4420'  Total Depth  PBTD  Amount of Surface Pipe Set and Cemented at 229'feet Multiple Stage Cementing Collar Used? X Yes XNo  If yes, show depth set feet  if alternate 2 completion, cement circulated from feet depth to 4/175 SX cmt  Cement Company Name	Water Resources Board (913) 296-3717  Source of Water: Division of Water Resources Permit #  GroundwaterFt North from Southeast Corner (Well)Ft West from Southeast Corner of Sec Twp Rge East West  X Surface WaterFt North from Southeast Corner (Stream, pond etc)Ft West from Southeast Corner Sec Twp Rge East West Drilling contractor purchased water from Steve Potter, Box 12, Arnold, KS.
Spud Date  Date Reached TD  Completion Date  4475'  Total Depth  PBTD  Amount of Surface Pipe Set and Comented at 229' feet  Multiple Stage Comenting Collar Used? X Yes XNo  If yes, show depth set 225  If alternate 2 completion, coment circulated from feet depth to 25 x/175 SX cmt  Cement Company Name 1/2-3/7  invoice # 4-/2-3/7	Water Resources Board (913) 296-3717  Source of Water:  Division of Water Resources Permit #
Spud Date  Date Reached TD Completion Date  4475'  Adapta  Amount of Surface Pipe Set and Cemented at 229 feet  Multiple Stage Cementing Collar Used? X Yes XNo  If yes, show depth set 325  If alternate 2 completion, cement circulated from feet depth to 325  Invoice # 420'  INSTRUCTIONS: This form shall be completed in triple	Water Resources Board (913) 296-3717  Source of Water:  Division of Water Resources Permit #
Spud Date  Date Reached TD Completion Date  4475'  Additional Depth  Amount of Surface Pipe Set and Cemented at 229'  Multiple Stage Cementing Collar Used? X Yes XNo  If yes, show depth set 325  If alternate 2 completion, cement circulated from feet depth to 325  Cement Company Name 1/2   1/2   2/2   2/2    INSTRUCTIONS: This form shall be completed in triple 200 Colorado Derby Building, Wichita, Kansas 67202  82-3-130, 82-3-107 and 82-3-106 apply	Water Resources Board (913) 296-3717  Source of Water:  Division of Water Resources Permit #
Spud Date  Date Reached TD Completion Date  4475'  Additional Depth  Amount of Surface Pipe Set and Cemented at 229'  Multiple Stage Cementing Collar Used? X Yes XNo  If yes, show depth set 325  If alternate 2 completion, cement circulated from feet depth to 325  Cement Company Name 1/2   1/2   2/2   2/2    INSTRUCTIONS: This form shall be completed in triple 200 Colorado Derby Building, Wichita, Kansas 67202  82-3-130, 82-3-107 and 82-3-106 apply	Water Resources Board (913) 296-3717  Source of Water:  Division of Water Resources Permit #
Spud Date  Date Reached TD Completion Date  4475'  Ad20'  Total Depth  PBTD  Amount of Surface Pipe Set and Cemented at 220'feet  Multiple Stage Cementing Collar Used? Xes Xno  If yes, show depth set	Water Resources Board (913) 296-3717  Source of Water:  Division of Water Resources Permit #
Spud Date  Date Reached TD Completion Date  4475'  4420'  Total Depth  PBTD  Amount of Surface Pipe Set and Cemented at	Water Resources Board (913) 296-3717  Source of Water:  Division of Water Resources Permit #
Spud Date  Date Reached TD Completion Date  4475'  Ad20'  Total Depth  PBTD  Amount of Surface Pipe Set and Cemented at 229'feet  Multiple Stage Cementing Collar Used?  If yes, show depth set	Water Resources Board (913) 296-3717  Source of Water:  Division of Water Resources Permit #
Spud Date  Date Reached TD Completion Date  4475'  4420'  Total Depth  PBTD  Amount of Surface Pipe Set and Cemented at	Water Resources Board (913) 296-3717  Source of Water:  Division of Water Resources Permit #
Spud Date  Date Reached TD Completion Date  4475'  Ad20'  Total Depth  PBTD  Amount of Surface Pipe Set and Cemented at 229'feet  Multiple Stage Cementing Collar Used?  If yes, show depth set	Source of Water:  Division of Water Resources Permit #
Spud Date  Date Reached TD  Completion Date  4475'  Total Depth  PBTD  Amount of Surface Pipe Set and Cemented at 229'  Multiple Stage Cementing Coliar Used?  If yes, show depth set 225'  If alternate 2 completion, cement circulated from 475'  Cement Company Name 2029 7  INSTRUCTIONS: This form shall be completed in triple 200 Colorado Derby Building, Wichita, Kansas 67202 82-3-130, 82-3-107 and 82-3-106 apply.  Information on side two of this form will be he in writing and submitted with the form. See rule 82 One copy of all wireline logs and drillers time to all plugged wells. Submit CP-111 form with all temps All requirements of the statutes, rules and regular been fully complied with and the statements herein and Signature Madda.  Title. V.P. Production Date	Water Resources Board (913) 296-3717  Source of Water:  Division of Water Resources Permit #
Spud Date  Date Reached TD Completion Date  4475'  Total Depth  PBTD  Amount of Surface Pipe Set and Cemented at 229 feet  Multiple Stage Cementing Collar Used?  If yes, show depth set  if alternate 2 completion, cement circulated  from  feet depth to  20297  INSTRUCTIONS: This form shall be completed in tripl  200 Colorado Derby Building, Wichita, Kansas 67202  82-3-130, 82-3-107 and 82-3-106 apply.  Information on side two of this form will be him writing and submitted with the form. See rule 82  One copy of all wireline logs and drillers time ic all plugged wells. Submit CP-111 form with all temp  All requirements of the statutes, rules and regular been fully complied with and the statements herein ar  Signature  Multiple Stage Cementing Collar Used?  Yes XNO  175. SX cmt  2-12-27  V-7/2-27  INSTRUCTIONS: This form shall be completed in tripl  200 Colorado Derby Building, Wichita, Kansas 67202  82-3-130, 82-3-107 and 82-3-106 apply.  Information on side two of this form will be him writing and submitted with the form. See rule 82  One copy of all wireline logs and drillers time ic all plugged wells. Submit CP-111 form with all temp  All requirements of the statutes, rules and regular been fully complied with and the statements herein ar  Signature  V.P. Production  Date  Subscribed and sworn to before me this 1974. day of	Water Resources Board (913) 296-3717  Source of Water:  Division of Water Resources Permit #
Spud Date  Date Reached TD Completion Date  4475'  Total Depth  PBTD  Amount of Surface Pipe Set and Cemented at 229 feet  Multiple Stage Cementing Collar Used?  If yes, show depth set  if alternate 2 completion, cement circulated  from  feet depth to  20297  INSTRUCTIONS: This form shall be completed in tripl  200 Colorado Derby Building, Wichita, Kansas 67202  82-3-130, 82-3-107 and 82-3-106 apply.  Information on side two of this form will be him writing and submitted with the form. See rule 82  One copy of all wireline logs and drillers time ic all plugged wells. Submit CP-111 form with all temp  All requirements of the statutes, rules and regular been fully complied with and the statements herein ar  Signature  Multiple Stage Cementing Collar Used?  Yes XNO  175. SX cmt  2-12-27  V-7/2-27  INSTRUCTIONS: This form shall be completed in tripl  200 Colorado Derby Building, Wichita, Kansas 67202  82-3-130, 82-3-107 and 82-3-106 apply.  Information on side two of this form will be him writing and submitted with the form. See rule 82  One copy of all wireline logs and drillers time ic all plugged wells. Submit CP-111 form with all temp  All requirements of the statutes, rules and regular been fully complied with and the statements herein ar  Signature  V.P. Production  Date  Subscribed and sworn to before me this 1974. day of	Water Resources Board (913) 296-3717  Source of Water:  Division of Water Resources Permit #
Spud Date  Date Reached TD  Completion Date  4475'  Adaptive PBTD  Amount of Surface Pipe Set and Comented at 229'feet  Multiple Stage Cementing Collar Used? X Yes XNo  If yes, show depth set	Source of Water:  Division of Water Resources Permit
Spud Date  Date Reached TD Completion Date  4475'	Water Resources Board (913) 296-3717  Source of Water:  Division of Water Resources Permit #

WELL LOG  NSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stemests giving interval tested, time fool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, botton 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  Samples Sent to Geological Survey  Yes  No  Cores Taken  DST #1; 4360'-4404' (Cherokee Sand)  DST #1; 4360'-4404' (Cherokee Sand)  Heebner  3762 - 3768  Lansing  3800 - 4072  Pawnee  4208 - 4291  Ft. Scott  4294 - 4318  FFP 338-578 (60 Min.)  FFP 338-578 (60 Min.)  FFP 338-578 (60 Min.)  Cherokee Sh. 4318 - 4320  FSIP 1214 (60 Min.)  FH 2185  Miss.  LTD  4474'  Rec. 90' GIP + 1530' Gassy 0il  DTD  CASING RECORD  Drilled Set (in 0.0.) Lbs/Ft.  Depth  Coment  Used  Additives  Surface  124"  104 Additives  DUSSE Percent  Purpose of String  Size Hole  Drilled Set (in 0.0.) Lbs/Ft.  Depth  Coment  Used  Additives  Surface  124"  1050 Additives  DO-50.002, 125. 27, get, 107, salts  374 of 17. CFH-3	perator Name		East	ase Name	Ness	••••••	Well #₹.	•
HSTRUCTIONS: Show important tops and base of formations peedrated. Detail all cores. Report all drill stems asts giving laterval tested, flee tool open and closed, flowing and shut-in pressures, whether shut-in ressures resched strotty level, hydrostritic pressures, bottom hole teapersture, fluid recovery, and flow rates figas to surface during fest. Affach extra sheet if some spece is needed. Affach copy of log.    Drill Stem Tests Taken	ec?A Twpl/S	. Rge	XX West Co	unty	••••••	••••••	••••••	••••
rests giving interval rested, fise fool open and closed, floring and shuff-in pressures, whether shuff-in ressure resched strict levals, hydrostric pressures, betted at the feather of the first ressure resoured stricts followed strict levals, hydrostric pressures, betted better floror space is needed. Attach copy of leg.  Drill Stee Tests Taken Samples Sent to Geological Survey			WELL LOG				,	
rests giving interval rested, fise fool open and closed, floring and shuff-in pressures, whether shuff-in ressure resched strict levals, hydrostric pressures, betted at the feather of the first ressure resoured stricts followed strict levals, hydrostric pressures, betted better floror space is needed. Attach copy of leg.  Drill Stee Tests Taken Samples Sent to Geological Survey	NSTRUCTIONS: Show Imports	ant tops and base	of formations pe	netrated.	lia liate	cores. R	eport all dri	ll stem
Semples Sent to Geological Survey	ests giving interval to ressure reached static	ested, time tool level, hydrostatic	open and close pressures, bott	ed, flowing on hole tem	g and shut- perature, 1	in pressu Iuid reco	res, whether s very, and flo	shut-In
Semples Sent to Geological Survey	Drill Stem Tests Take	. [☑]:	res No		Formati	ion Descri	ntion	,
Name	Samples Sent to Geolog	gical Survey 🔲	res X No	İ	_	-	•	
Lansing   3800 - 4072		ب ا	LAJ	Na Na	ame		Top Botto	om
Pawnee	DST #1; 4360'-44	04' (Cherokee	Sand)	Heeb	ner	. 3	3762 - 3768	
SIP 1263 (30 Min.)	IH 2203			Lans	ing	3	8800 - 4072	
FFP 338-578 (60 Min.)  FSIP 1214 (60 Min.)  FSIP 1214 (60 Min.)  FSIP 1214 (60 Min.)  FH 2185  BHT 125°  BHT 125°  Rec. 90' GIP + 1530' Gassy 0il   CASING RECORD New Used  Report all strings set-conductor, surface, Intermediate, production, etc.  Purpose of String Size Mole Size Casing Weight Setting Type of Sacks Percent Used Additives  Drilled Set (In 0,D.) Lbs/Ft. Depth Coment Used Additives  SUFFACE  SUFFACE  FORMACIÓN RECORD  Shots Per Foot Specify Footage of Each Interval Perforated (Amount and Kind of Material Used)  Acid, Fracture, Shot, Coment Record (Amount and Kind of Material Used)  Acid, Fracture, Shot, Coment Record (OD gas Value)  PERFORATION RECORD  Shots Per Foot Specify Footage of Each Interval Perforated (Amount and Kind of Material Used)  Date of First Production Production Flowing Pumping Gas Lift Other (explain).  WETHOU OF COMPLETION Production Interval Perforation Other (Specify)  Bbis MCF Bbis CFPB  METHOD OF COMPLETION Production Other (Specify)  Dually Completed Commingled	IFP 269-282 (15	Min.)		Pawn	ee	4	208 - 4291	
FSIP 1214 (60 Min.)  FH 2185  BHT 125°  Rec. 90' GIP + 1530' Gassy 0il  CASING RECORD Now Used Report all strings set-conductor, surface, Intermediate, production, etc.  Type and Purpose of String Size Hole Size Casing Neight Setting Type of #Sacks Percent Defiled Set (In O.D.) Lbs/Ft. Depth Coment Used Additives  SURTAGE  PERFORATION RECORD  FEROMATION RECORD  Shots Per Foot Specify Footage of Each Interval Perforated (Anount and Kind of Material Used) Depth Shots Per Foot Specify Footage of Each Interval Perforated (Anount and Kind of Material Used) Depth Setting Type of #Sacks Percent Depth Specify Footage of Each Interval Perforated (Anount and Kind of Material Used) Depth Shots Per Foot Specify Footage of Each Interval Perforated (Anount and Kind of Material Used) Depth Set of First Production Producing Method 7-6-88 : 1   Gas   Mater   Gas-Oil Ratio   Gravity    Disposition of gas:   Vented   Sold   Open Hole   Perforation   Open Hole   Open Hole   Perforation   Open Hole   Open Hole	ISIP 1263 (30 M	in.)		Ft.	Scott	1	1294 - 4318	
BHT 125° Rec. 90' GIP + 1530' Gassy 0il  CASING RECORD Now DID  Report all strings set-conductor, surface, Intermediate, production, etc.  Type and Purpose of String   Size Hole   Size Casing   Weight   Setting   Type of   #Secks   Percent   Additives    Divided   D	FFP 338-578 (60	Min.)		Cher	okee Sh.	4	318 - 4320	
BHT 125° Rec. 90' GIP + 1530' Gassy 0il  CASING RECORD Now DID  Report all strings set-conductor, surface, intermediate, production, etc.  Type and Purpose of String   Size Hole   Size Casing   Weight   Setting   Type of   #5acks   Percent   Drilled   Set (in 0.0.)   Lbs/Ft.   Depth   Coment   Used   Additives    SURTAGE   1/4"   5.3/8"   20#   279   00-50 ppg   150   27 get   37 ce    Production   7.7/8"   4.1/2"   104#   4473   50-50 ppg   2.5   27 get   10% salt	FSIP 1214 (60 M	in.)		Cher	okee Sd.	4	366 -4433	
Rec. 90' GIP + 1530' Gassy 0il    DTD	FH 2185	٤.		Miss	•	4	1433 - T.D.	
CASING RECORD Now Used  Report all strings set-conductor, surface, intermediate, production, etc.  Type and  Purpose of String   Size Hole   Size Casing   Weight   Setting   Type of   #Sacks   Percent   Drilled   Set (in 0,0.)   Lbs/Ft.   Dapth   Coment   Used   Additives    SURTAGE   1/4"   8.5/8"   279   U-7U DP2   150   74 Fe1. 34 E9  Production   7.7/8"   4.1/2"   10-8"   4473   0.50 DP2   23   24 Re1   D0-50 DP2   125   27 Re1   10 Selt   D0-50 DP2   125   27 Re1   D0-50 DP2   125   27 Re1   10 Selt   D0-50 DP2   125   27 Re1   D0-50 DP2   125   27 Re1   D0-50 DP2   125   27 Re1   D0-50 DP2	BHT 125°			LTD			4474	ı
CASING RECORD Now Used Report all strings set-conductor, surface, intermediate, production, etc.  Purpose of String   Size Hole   Size Casing   Meight   Setting   Type of   #Sacks   Percent   Drilled   Set (in 0.0.)   Lbs/Ft.   Depth   Coment   Used   Additives    SURTAGE   1/47   8.5/8   27/8   27/9   U-7U   DP7   1/50   74   Fel.   34   55   Production   7.7/8   4.1/2   10/64   4473   0.50   DP7   23   74   Rel   Driver   1/5   1/5   1/5   1/5   1/5   1/5   1/5   1/5   1/5   1/5   1/5   PERFORATION RECORD   Acid, Fracture, Shot, Cement Squeeze Record   400   ga   Shots Per Foot   Specify Footage of Each Interval Perforated   (Amount and Kind of Material Used)   Depth   Super    Z/LL   4.3/2-4392   None   X    Date of First Production   Producing Method   7-6-88   1	Rec. 90' GIP + 1	530' Gassy Oil		DTD			4475	ı
Type and Purpose of String   Size Hole   Size Casing   Meight   Setting   Type of   #Sacks   Percent	· • • -					·		<del>-</del> į
Purpose of String   Size Hole   Size Casing   Weight   Depth   Cement   Used   Additives	Report a	li strings set-con	ductor, surface,	intermediat	te, product	ion, etc.	Tune and	İ
Production   7,7/8"   4,1/2"   10/4   4473   50-50 ppg   25   2 get   10% salt   50-50 ppg   125   2 get   10% salt   10 ppg   12 CFR   3 ppg   12 ppg	- 1	i	- ; -		· ·	i	Percent	
PERFORATION RECORD Shots Per Foot   Specify Footage of Each Interval Perforated   Acid, Fracture, Shot, Cement Squeeze Record   400 ga   4372-4392      TUBING RECORD   Size   Set At   Packer at   Liner Run   Yes   Xi No   2 3/8"   4437'   None   Acid, Fracture, Shot, Cement Squeeze Record   400 ga				* * * * * * * * * * * *			,	co.
PERFORATION RECORD Shots Per Foot   Specify Footage of Each Interval Perforated   Acid, Fracture, Shot, Cement Squeeze Record   400 gas   4372-4392   Acid, Fracture, Shot, Cement Squeeze Record   400 gas   4372-4392   Acid, Fracture, Shot, Cement Squeeze Record   400 gas   4372-4392   Acid, Fracture, Shot, Cement Squeeze Record   400 gas   4372-4392   Acid, Fracture, Shot, Cement Squeeze Record   400 gas   4372-4392   Acid, Fracture, Shot, Cement Squeeze Record   400 gas   4372-4392   Acid, Fracture, Shot, Cement Squeeze Record   400 gas   4372-4392   Acid, Fracture, Shot, Cement Squeeze Record   400 gas   4372-4392   Acid, Fracture, Shot, Cement Squeeze Record   400 gas   4372-4392   Acid, Fracture, Shot, Cement Squeeze Record   400 gas   4372-4392   Acid, Fracture, Shot, Cement Squeeze Record   400 gas   4372-4392   4372	Production ///	34.1.42	103#		50-50 po: 50-50 po:	425 2. 125	2% gel 2% gel. 10%	j Salt
PERFORATION RECORD Specify Footage of Each Interval Perforated (Amount and Kind of Material Used) Depth Super Record Acid, Fracture, Shot, Cament Squeeze Record (Amount and Kind of Material Used) Depth Super Record RECORD Size Set At Packer at Liner Run Yes No Date of First Production Producing Method 7-6-88  Oil Gas Water Gas-Oil Ratio Gravity Stimated Production Per 24 Hours  Bbis MCF Bbis CFPB  METHOD OF COMPLETION Production Interval  Disposition of gas: Yented Sold Other (Specify)  Duality Completed Commingled							3/4 of 1% C	FR-3
TUBING RECORD Size Set At Packer at Liner Run Yes X No  2 3/8" 4437' None Date of First Production Producing Method 7-6-88			erval Perforated				Squeeze Record	400 ga
TUBING RECORD Size Set At Packer at Liner Run Yes X No 2 3/8" 4437' None  Date of First Production Producing Method 7-6-88'; Simated Production 170 TSTM 0 0 41°  Per 24 Hours Bbis MCF Bbis CFPB  METHOD OF COMPLETION Production Interval  Disposition of gas: X Vented Open Hole X Perforation Other (Specify) 4372-4392  Duality Completed Commingled	.2/tt	921			None.			
2 3/8" 4437' None  Date of First Production   Production			************		••••••	••••••		
2 3/8" 4437' None  Date of First Production   Production   Production   Production   Production   Production   Production   Production   TSTM   O		**************	••••••		• • • • • • • • • •	••••••	· · · · ·   · · · · · · · · · · · · · ·	••  ••
2 3/8" 4437' None  Date of First Production   Production	TIBING RECORD C1	Cot At	Dankon -+					_
Date of First Production 7-6-88   Flowing   Pumping   Gas Lift   Other (explain)	· ·			Liner Run	Ye	s [X]No		
Per 24 Hours    METHOD OF COMPLETION   Production Interval     Open Hole   X Perforation   4372-4392   Other (Specify)   Outline Completed   Commingled   Outline Completed   Occurrence   Outline Completed   Outline Commingled   Outline Completed   Outline Commingled   Outline Completed   Outline Completed   Outline Commingled   Outline Completed   Outline Commingled   Outline Commingle Commingle Commingle   Outline Commingle Commingle Commingle Commingle Commingle Co	Date of First Production 7-6-88	Producing Method		oing [ Gas	Lift 🔲 ot	her (expl	in)	••
Bbls MCF Bbls CFPB  METHOD OF COMPLETION Production Interval  Disposition of gas: Vented Other (Specify) 4372-4392  Used on Lease Dually Completed Commingled		011	Gas	Wate	er G	as-Oil Ra	tio Gravi	†y
METHOD OF COMPLETION Production Interval  Disposition of gas: Vented Open Hole Perforation 4372-4392  Used on Lease Dually Completed Commingled		170	TSTM	0		0	41°	
Open Hole   Perforation   4372-4392   Other (Specify)   Used on Lease   Dually Completed   Commingled	<b>V</b>	Bbls	MCF	·	8b1s	Ó	CFPB	
Sold Other (Specify)		MET	HOD OF COMPLETION	Y	<del></del> -	Pro	luction Interv	al
Dually Completed Commingled	Şo۱ 🛄 Şo۱	d '				•	4372-4392	••
	٠				ed ,	• • • • • • • • • • • • • • • • • • • •		••

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TICKET NO. 620297-7

A Division of Halliburton Company

FORM 1906 R-11									T	1 %		· · · · ·		
WELL NO FARM OR LEA	ASE NAME	The State of the S		COUNTY	725	STATE	45	CITY / OFFSH	ORE LOCA	TION		DATE 9	19-84	
CHARGE TO	1	140° 1478	0			OWNER			TICH	ET TYPE (C	CHECK ONE)	NITRO	SEN JOB	
ADDRESS	- Alex	14	(	<b>)</b>		CONTRACTOR	and the same of th		-	LOCATION	SALES	YES	NO 🔪	
Po. B	ox 400	> ~				Mayo	Will	Scale	ce 1	Nes	5(14)	15 50	303	
CITY, STATE, ZIP	OL					SHIPPED VIA	FREIG	HT CHARGE	S 2	LOCATION		CODE	400	
WELL TYPE	WELL CATEGO	RY		WELL PERMIT NO.	-	DELIVERED TO	1 1	, C4	. 2	LOCATION	73/1	CODE	- 100 SERVE	
TYPE AND PURPOSE OF J	D 2			TOTAL STATE OF THE		ORDER NO.	3 Nes	5 (.4	SEE	ERRAL LO	CATION			
C	120			B-655	095	ONDEN NO.					or West			
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HALLIBURTON APPROVAL

CUSTOMER

CUSTOMER OR HIS AGENT (SIGNATURE)



WORK ORDER CONTRACT AND PRE-TREATMENT DATA ATTACH TO INVOICE & TICKET NO FORM 1908 R-5 Halliburton Company DISTRICT YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE TO: HALLIBURTON SERVICES THE SAME AS AN INDEPENDENT CONTRACTOR TO: (CUSTOMER) SERVICING AND DELIVER AND SELL PRODUCTS. SUPPLIES. AND MATERIALS FOR THE PURPOSE OF WELL NO LEASE OWNED BY FIELD COUNTY STATE THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT NEW MAX. ALLOW. WEIGHT SIZE FROM TO FORMATION NAME TYPE FORMATION CASING COMMISSION FROM LINER PACKER: TYPE MUJE CORPOR 82 TUBING TOTAL DEPTH SHOTS/FT OPEN HOLE BORE HOLE PERFORATIONS BPD. GAS NOW DIVINGEN CE INITIAL PROD OIL BPD, H2O PERFORATIONS PRESENT PROD: BPD. H2O OIL PERFORATIONS PREVIOUS TREATMENT: DATE TYPE MATERIALS TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED As consideration, the above-named Customer agrees: (a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. (b) Halliburton shall not be responsible for and Customer shall secure Halliburton 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 Halliburton, this provision applying to but not limited to subsurface damage and surface damage arising from subsurface damage. Customer shall be responsible for and secure Halliburton against any liability for reservoir loss or damage, or property damage resulting from subsurface pressure, losing control of the well and/or a well blowout, unless such loss or damage is caused by the willful misconduct or gross negligence of Halliburton

- (d) Customer shall be responsible for and secure Halliburton against any and all liability of whatsoever nature for damages as a result of subsurface trespass, or an action in the nature thereof, arising from a service operation performed by Halliburton hereunder.
- (e) Customer shall be responsible for and secure Halliburton against any liability for injury to or death of persons, other than employees of Halliburton, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole, unless such damage shall be caused by the willful misconduct or gross negligence of Halliburton.
- f) Halliburton makes no guarantee of the effectiveness of the products, supplies or materials, nor of the results of any treatment or service
- (g) Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
- (h) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be responsible for any damages arising from the use of such information except where due to Halliburton's gross negligence or willful misconduct in the preparation or furnishing of it:
- (i) Halliburton 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 MERCHANTIABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials in expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequental damages.
- (j) Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated. Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
- (k) This contract shall be governed by the law of the state where services are performed or equipment or materials are furnished.
- (I) Halliburton 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 Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT

DATE CUSTOMER

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

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JOB LOG FORM 2013 R-2 (BBL) PRESSURE (PSI) TUBING CASING 2700 0900 900 300

HALLIBURTON SERVICES



## BULK MATERIALS DELIVERY AND TICKET CONTINUATION

FOR INVOICE AND 100 397

8-9-88	CUSTOMER ORDE	R NO.		WELL NO. AND FARM		1	Ness	17.75	46		STATE Kan sa	s
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PAGE 1 OF PAGES

X \_\_\_\_\_CUSTOMER OR HIS AGENT (SIGNATURE)



TICKET No. 620296-6

A Division of Halliburton Company

FORM 1906 R-11		A.			I st	No.					SAST N		
WELL NO - FARM OR LE	ASE NAME	18,13		COUNTY	Vess	STAT	Ks	CITY / OF	FSHORE LOCAT	ION		ATE 8-9-8	8
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CUSTOMER OR H	IS AGENT (PLEASE P	RINT)		HALLIBI	URTON	1						0.4	

CUSTOMER



## WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ATTACH TO

DISTRICT FINAL AND AND AND AND AND AND AND AND AND AND	The same of the sa				DATE	5 / 0	0
TO: HALLIBURTON SERVICES YOU ARE HERE	BY REQUESTED TO F	URNISH E	QUIPMENT A	ND SERVI	CEMEN TO	DELIVER A	ND OPERATE
THE SAME AS AN INDEPENDENT CONTRACTOR TO:	Mack	the	794 I	0		4	
AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND	MATERIALS FOR THE	PURPOSE	OF SERVICI				
			21		1 -4 5		
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TOTAL DEPTH 4475 MUD WEIGHT	TUBING	L		2%	61	829	
BORE HOLE	OPEN HOL	E			Z.		sнотs/гт.
INITIAL PROD: OILBPD, H2OBPD, GAS	PERFORAT	ions					
PRESENT PROD: OILBPD, H2OBPD, GAS	PERFORAT	ions	field available				
FRESENT FROD. OIL BFD, H20 BFD, GAS	PERFORAT	IONS	# 12 12 12 12 12 12 12 12 12 12 12 12 12			- 4-2	
PREVIOUS TREATMENT: DATETYPE _	A TOTAL CONTROL OF THE STATE OF		MATERIAL	2017	47-5-6	1960 100	
TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNUI	LUS   CASING   TUE	BING/ANN	JLUS   HYD	RAULIC H	ORSEPOWE	R ORDERED	
Kun ABP 4 FO	Positioner.	sto	9/1	- Alexander			_ 9
		S 9.	101	1	1.0	1. Contract	8724
							W.
						4-1-1-1	
Contract to the second							
CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER				PLIES, MAT	ERIALS, ANI	SERVICES	
As consideration, the above-named Customer agrees:	OT MUST BE SIGNED BEFOR	RE WORK IS	COMMENCED				
(a) To pay Halliburton in accord with the rates and terms stated in Halliburto	n's current price lists.						
(b) Halliburton shall not be responsible for and Customer shall secure Halliburt							r), unless caused by
the willful misconduct or gross negligence of Halliburton, this provision apply (c) Customer shall be responsible for and secure Halliburton against any lia	bility for reservoir loss or dan	nage, or prope		and the second		All the second s	of the well and/or a
well blowout, unless such loss or damage is caused by the willful misconduc  (d) Customer shall be responsible for and secure Halliburton against any and a service operation performed by Halliburton hereunder.	10 M		es as a result of s	ubsurface tres	pass, or an actio	on in the nature t	hereof, arising from
(e) Customer shall be responsible for and secure Halliburton against any habit injury to the well), or any damages whatsoever, irrespective of cases, and	ing out of or in any way conn	ected with the	use of radioactiv	e material in th	r damage to pro se well hole, unl	operty (includin ess such damag	g, but not limited to e shall be caused b
(f) Halliburton makes no guarantee of the effectiveness of the products, suppl	ies or main lais, nor of the res	ults of any tre	atment or service	e.			
(g) Customer shall, at its risk and expense, attempt to recover any Hallibut Customer shall pay Halliburton its replacement cost unless such loss is due Halliburton the lesser of its replacement cost or the cost of repairs unless such Customer shall, in addition to the foregoing, be fully responsible for the landing until returned to the landing, unless such loss or damage is caused.	rtos equipment, tog Or inst o the sole negligence of Hallib damage is caused by the sole of or damage to a sol of Hallib	ruments which urton. If Hallik enegligence of urton's equipa	h are lost in the wourton equipment f Halliburton. In t ment, tools or ins	ell and if such t, tools or instru he case of equ truments which	equipment, too iments are dam ipment, tools of th occurs at an	ls or instrument aged in the well, rinstruments for y time after deliv	s are not recovered Customer shall pay marine operations very to Customer a
(h) Because of the uncertainty of variable well conditions and the necessity interpretation, research analysis, job recommendation or other data fur in interpreting it, but Customer agrees that Halliburton shall not be resp	of a lying on facts and sup marked a Halliburton. Hallib	porting service aurton person	es furnished by o nel will use their t	thers, Hallibur best efforts in g	ton is unable to athering such i	guarantee the a nformation and	ccuracy of any char their best judgmen

special, incidental, indirect, punitive or consequental damages. (j) Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated. Customer agrees to pay interest thereon after default at the highest lawful contract, rate applicable but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.

Halliburton 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 MERCHANTIABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials in expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for

(k) This contract shall be governed by the law of the state where services are performed or equipment or materials are furnished.

(i) Halliburton 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 Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

CUSTOMER

A.M. P.M. TIME

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

misconduct in the preparation or furnishing of it.

		See Section 1		No. of the last	2	WEL	L DATA	2.	The second	Nes	5		V.
IELD		10	D		SEC.	1 TWP. 1	RNG.	-	COUNTY _	11 3	)	STATE_	A3
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LOCKING A	GENT TYPE	Qr.	(	9	AL, GB.		CHARACTE	V	V	C .		3 2	
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THER		2002	7 1	1999 M. W.	-3		HALLIBURT	ON	-	1	1	COPIES	
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	NUMBER OF SACKS	TYPE	CLASS	BRAND	BULK			ADDI	TIVES			CU.FT./SK	MIXED LBS./GAL.
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BREAKDOWN	STANT	HYDRAUL	_5-MIN.	SEPOWER			TOTAL VOLUM	E: BBL.	GAL.			Yard	
BREAKDOWN	STANT	HYDRAUL AVAILA	5-MIN.	SEPOWER				E: BBL.	GAL.	REMAR	KS		
BREAKDOWN	STANT	HYDRAUL AVAILA AVERAGE	S-MIN.	SEPOWER S IN BPM	USED			E: BBL.		REMAR	KS		
BREAKDOWN	STANT	HYDRAUL AVAILA AVERAGE	SPL.	SEPOWER	USED			E: BBL.		REMAR	KS		

· JOB LOG FORM 2013+R-2 VOLUME PRESSURE (PSI) CHART RATE (BPM) (BBL) TIME CASING RECEIVED MINISTON AVATION B 585 Wichita. Kay

HALLIBURTON SERVICES