

SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 9449

Name: Great Eastern Energy & Dev. Corp.

Address 5990 Greenwood Plaza Blvd., #131

City/State/Zip Englewood, CO. 80111

Purchaser: Zoandra Gathering Systems, Inc.

Operator Contact Person: John W. Smith

Phone (303) 773-6016

Contractor: Name: Kephart Drilling, Inc.

License: #5379

Wellsite Geologist: John W. Smith

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd.

Gas Inj Delayed Comp.

Dry Other (Core, Water Supply, etc.)

If **OWMO**: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

7/15/90 7/16/90 8/3/90

Spud Date Date Reached TD Completion Date

API NO. 15- 205 - 24,868 0000

County Wilson

NW SE SE sec. 34 Twp. 30 S. Rge. 15 East West

800 Ft. North from Southeast Corner of Section

1080 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

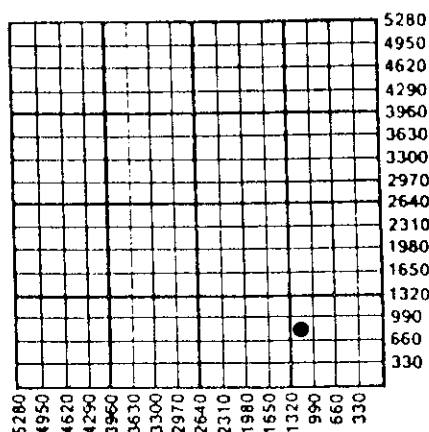
Lease Name Mustain Well # 1-A

Field Name Neodesha

Producing Formation Cherokee Coal Beds & Bartlesville S

Elevation: Ground 951' KB N/A

Total Depth 1130' PBTD 1124'



Amount of Surface Pipe Set and Cemented at 40 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 1129

feet depth to Surface w/ 115 sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months. **One copy of all wireline logs and drillers time log shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED.** Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature John W. Smith

Title Exec. Vice President Date 1/16/91

Subscribed and sworn to before me this 16th day of January, 1991.

Notary Public _____

Date Commission Expires 8/22/93

K.C.C. OFFICE USE ONLY		
F	<input type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input type="checkbox"/>	Drillers Timelog Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug
		<input type="checkbox"/> NGPA
		<input type="checkbox"/> Other
		(Specify)

SIDE TWO

Operator Name Great Eastern Energy & Dev. Corp. Lease Name Mustain Well # 1-A

Sec. 34 Twp. 30S Rge. 15 East West
 County Wilson

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Attach Additional Sheets.) Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy.)	<p align="center">Formation Description</p> <p align="center"><input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: center;">Top</th> <th style="text-align: center;">Bottom</th> </tr> </thead> <tbody> <tr> <td>Pawnee Ls. _____</td> <td style="text-align: center;">762'</td> <td style="text-align: center;">776'</td> </tr> <tr> <td>Oswego Ls. _____</td> <td style="text-align: center;">840'</td> <td style="text-align: center;">884'</td> </tr> <tr> <td>Cherokee Gp. _____</td> <td style="text-align: center;">888'</td> <td style="text-align: center;">TD</td> </tr> <tr> <td>Mulky Coal _____</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Bevier Coal _____</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Weir-Pittsburgh Coal _____</td> <td style="text-align: center;">1054'</td> <td style="text-align: center;">1058'</td> </tr> <tr> <td>Bartlesville SS _____</td> <td style="text-align: center;">1093'</td> <td style="text-align: center;">TD</td> </tr> <tr> <td>Tucker/Burgess SS _____</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Unnamed Coal _____</td> <td style="text-align: center;">1108'</td> <td style="text-align: center;">1111'</td> </tr> <tr> <td>Mississippian System _____</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> </tbody> </table>	Name	Top	Bottom	Pawnee Ls. _____	762'	776'	Oswego Ls. _____	840'	884'	Cherokee Gp. _____	888'	TD	Mulky Coal _____	-	-	Bevier Coal _____	-	-	Weir-Pittsburgh Coal _____	1054'	1058'	Bartlesville SS _____	1093'	TD	Tucker/Burgess SS _____	-	-	Unnamed Coal _____	1108'	1111'	Mississippian System _____	-	-
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CASING RECORD <input type="checkbox"/> New <input checked="" type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	8-5/8"	7"		40'	Cmn	6	
Production	6-1/4"	4-1/2"	10.5	1129'	Owc	115	6% Salt, 5% Gilsonite, 2% gel.

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
3	1108'-1111'; 1093'-1104'	200 gel foamed acid, 6000# 10/20 sd.	1093'-1111'

TUBING RECORD	Size 2-3/8"	Set At 1109'	Packer At --	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First Production 9/10/90	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity
		---		15		20		

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION

Open Hole Perforation Dually Completed Commingled

Other (Specify) _____

Production Interval
1093'-1104'
1108'-1111'

KEPHART DRILLING INC.
R.R. # 1 BOX 68A
THAYER, KANSAS 66776

Great Eastern energy & Develop. Corp.	0'	-	65'	-	lime
	65'	-	190'	-	shale
	190'	-	230'	-	sand
MUSTAIN #1-A	230'	-	242'	-	sandy shale
	242'	-	243'	-	coal (gas)
Wilson County	243'	-	283'	-	shale
	283'	-	398'	-	lime
15-205-24,868	*383'				water
	398'	-	401'	-	shale (gas)
S34-T30-R15E	401'	-	407'	-	sandy shale
	407'	-	427'	-	sandy (gas)
800' N. of S.	427'	-	437'	-	sandy shale
1080' W. of E	*443'				8" on 1/2"
	437'	-	444'	-	shale
	444'	-	469'	-	lime
	469'	-	574'	-	shale
	574'	-	598'	-	lime
	598'	-	617'	-	shale
	617'	-	623'	-	lime
	623'	-	626'	-	shale
	626'	-	638'	-	sandy shale
	638'	-	676'	-	shale
	676'	-	720'	-	sand
	720'	-	757'	-	shale
	757'	-	758'	-	coal
	758'	-	762'	-	shale
	762'	-	774'	-	Pink lime
	774'	-	776'	-	shale
	776'	-	777'	-	lime
	777'	-	787'	-	shale
	*787'				3" On 1/2"
	787'	-	792'	-	sandy shale
	792'	-	805'	-	sand
	805'	-	838'	-	sand (oil show) little gas
	*828'				oil show
	*828'				5" on 1/2"
	838'	-	864'	-	lime
	864'	-	873'	-	shale
	873'	-	885'	-	lime
	885'	-	888'	-	shale
	888'	-	889'	-	coal
	*889'				6" on 1/2"
	889'	-	906'	-	lime
	906'	-	921'	-	shale
	921'	-	922'	-	coal
	922'	-	983'	-	shale
	*930'				7" on 1/2"
	983'	-	984'	-	coal
	984'	-	1011'	-	shale
	1011'	-	1012'	-	coal
	1112'	-	1015'	-	shale



Great Eastern Energy & Develop. Corp.	*1015'	-	1025'	-	sand-oil odor
	1025'	-	1040'	-	shale
	1040'	-	1041'	-	coal
Mustain #1-A	1041'	-	1051½'	-	shale
	*1050'				3½" on ½"
	1051½'	-	1055½'	-	coal
	1055½'	-	1092'	-	shale
	*1056'				14" on ½"
	*1060'				weir
	1092'	-	1100'	-	sand oil odor
	1100'	-	1105'	-	shale
	1105'	-	1106'	-	coal
	1106'	-	1110'	-	shale
	1110'	-	1112'	-	shale
	*1110'				16" on ½" 25 MCF-day
	1112'	-	1130'	-	sand (oil)
	1130'		Total Depth		

STATION Chanute OPERATOR Tucson Guinotte
CONSOLIDATED OIL WELL SERVICES, INC.

P.O. Box 884
 Chanute, Kansas 66720
 Phone (316) 431-9210

Ticket 81166

Date <u>7-16-90</u>	Customer's Acct. No. <u>3309</u>	Sec. <u>34</u>	Twp. <u>30</u>	Range <u>15</u>	Well No. & Farm <u>MUSTAIN #1A</u>	Place or Destination <u>SW-NeedlesLA</u>
Charge To <u>Great Eastern of Tom Bruce</u>	Owner				County <u>Wilson</u>	
Mailing Address <u>147 S. 4th P.O. Box 336</u>	Contractor				State <u>Ks</u>	
City & State <u>NeedlesLA Ks 66757</u>				Well Owner Operator Contractor		

CEMENTING SERVICE DATA

TYPE OF JOB	CASING	HOLE DATA	PLUGS AND HEAD	PRESSURE	CEMENT LEFT IN CASING
Surface	New	Bore Size <u>6 1/4"</u>	Bottom	Circulating <u>100</u>	Requested
Production	Used	Total Depth <u>1130'</u>	Top	Minimum <u>500</u>	Necessity
Squeeze	Size <u>4 1/2"</u>		Head <u>P.C.</u>	Maximum <u>800</u>	Measured
Pumping	Weight	Cable Tool	FLOAT EQUIPMENT	Sacks Cement <u>1155ks 60/40 p02</u>	
Other	Depth <u>7120' Inset</u>	Rotary <u>A.R.</u>	<u>Flood sleeve</u>	Type & Brand <u>Portland "A"</u>	
	Type			Admixes <u>6% SALT 5lbs gilsomite per SK</u>	

FRACTURING - ACIDIZING SERVICE DATA 2% gel

Type of Job	At intervals of			
Bbls Fracturing Fluid	Breakdown Pressure from	psi to	psi	
Treating Pressures: Maximum	psi	Minimum	psi	Avg. Pump Rate
Sand	Gals. Treating Acid	Type	Open Hole Diameter	
Well Treating Through: Tubing	Casing	Annulus	Size	Weight
Remarks:	Pay Formation Name			Depth of Job
No. Perforations				Ft.

INVOICE SECTION

CEMENTING

FRACTURING - ACIDIZING

Pumping Charge <u>1-cement</u>	Office Use \$	Pumping Charge	Office Use \$
Pumping Charge <u>60/40 p02</u>	540	Pumping Charge	
<u>115 Sacks Bulk Cement</u>	@ 1101	<u>12x30 Sand</u>	@
<u>Ton Mileage on Bulk Cement 40</u>	@ 6401	<u>10x20 Sand</u>	@
<u>2-skts Premium Gel</u>	@ 1301	<u>x Sand</u>	@
<u>Flo-Seal</u>	@	<u>Ton Mileage</u>	@
<u>Calcium Chloride</u>	@	<u>Gals., Acid</u>	@
<u>1-4 1/2" Plug Rubber</u>	@ 4408	<u>Chemicals</u>	@
<u>1-4 1/2" Down Hole Plug</u>	@ 4419		@
<u>Equipment</u>	@		@
<u>575 lbs gilsomite</u>	@ 1304		@
<u>345 lbs SALT</u>	@ 1305		@
	@		@
	@	<u>Potassium Chloride</u>	@
	@	<u>Rock Salt</u>	@
<u>Granulated Salt</u>	@	<u>Water Gel</u>	@
<u>Transport Truck (Hrs.)</u>	@	<u>Transport Truck (Hrs.)</u>	@
<u>Vac Truck (4 Hrs.)</u>	@ 10301	<u>Vac Truck (Hrs.)</u>	@
	@		@
	Tax		Tax

A Finance Charge computed at 1% per month (annual percentage rate of 21%) will be added to balance over 30 days.

Total \$ 1589.60

Total \$

11563