

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

Operator: License # 5591
Name Westech Energy Co. Inc.
Address P.O. Box 949
City/State/Zip Great Bend, Kansas 67530

Purchaser KOCH OIL COMPANY
Wichita, Ks.

Operator Contact Person Cathy Pekarek
Phone 316-792-5653

Contractor: License # 5122
Name Woodman-Iannitti Drlg Co.

Wellsite Geologist Dave Williams
Phone 316-792-5020

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp Abd
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply etc.)

If OWWO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
11-26-85 12-5-85 12-5-85
Spud Date Date Reached TD Completion Date
3960' 3944'
Total Depth PBD

Amount of Surface Pipe Set and Cemented at 1050 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set feet
If alternate 2 completion, cement circulated from feet depth to w/ SX cmt
Cement Company Name
Invoice #

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 82-3-130 and 82-3-107 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. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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 Catherine E. Pekarek Catherine E. Pekarek
Title President Date 3-7-86

Subscribed and sworn to before me this 7th day of March 1985
Notary Public Dianne M. Willesden
Date Commission Expires 6-28-89

API NO. 15-009-24-108-0000
County Barton
NW NE NE 31 20 15 East
Sec. Twp. Rge. X West

4950 Ft North from Southeast Corner of Section
990 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

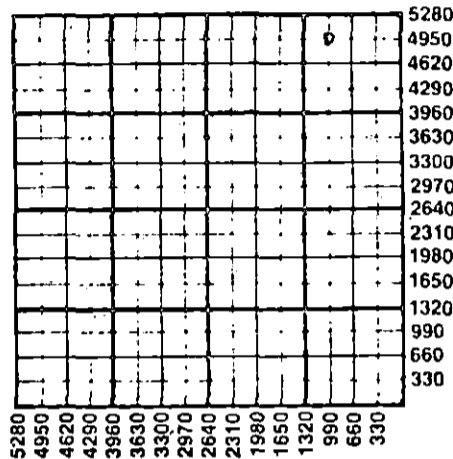
Lease Name Carr Well # 2

Field Name Ash Creek

Producing Formation Arhuckle

Elevation: Ground 2040' KB 2045'

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
Docket # D-24-490 Repressuring

Questions on this portion of the ACO-1 call:

Water Resources Board (913) 296-3717

Source of Water:
Division of Water Resources Permit #

Groundwater Ft North from Southeast Corner (Well) Ft West from Southeast Corner of Sec Twp Rge East West

Surface Water Ft North from Southeast Corner (Stream, pond etc) Ft West from Southeast Corner Sec Twp Rge East West

Purchased from:
 Other (explain) Millard Barrett
(purchased from city, R.W.D. #)
R.R. #1, Larned, Kansas

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received
Distribution
 KCC SWD/Rap NGPA
 KGS Plug Other
(Specify)

Sec. 31 Twp. 20 Rge. 15 W

MAR 10 1986 3-10-86

SIDE TWO

Operator Name WestTech Energy Co., Inc. Lease Name Carr Well # 2

Sec. 31 Twp. 20 Rge. 15 East West County Barton

WELL LOG

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 checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Samples Sent to Geological Survey	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Cores Taken	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

Shale	0	40
Shale	40	462
D. Sand	462	580
Shale	580	920
Shale	920	1047
Anhydrite	1047	1054
Anhydrite	1054	1068
Shale	1068	1410
Shale	1410	2100
Shale	2100	2417
Lime & Shale	2417	2720
Lime & Shale	2720	2970
Lime & Shale	2970	3180
Lime & Shale	3180	3365
Lime	3365	3520
Lime	3520	3654
Lime	3654	3760
Lime	3760	3820
Lime	3820	3830
Arbuckle	3830	3855

Formation Description		
<input type="checkbox"/> Log	<input type="checkbox"/> Sample	
Name	Top	Bottom
<u>SEE ATTACHED</u>		

CASING RECORD <input type="checkbox"/> New <input 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.....	..12-1/4".....	..8-5/8".....	..23#.....	..1050'.....	..Lite.....	..200.....	..3% CC.....
..Production.....	..7-7/8".....	..5-1/2".....	..14#.....	..3954'.....	..60/40.....	..200.....	..3% CC...2% Gel
							..18% Salt... 3/4 of
							..1% CFR2, 20 Bbl. Flush
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			Amount and Kind of Material Used			Depth
..2. spf.....	..3,860'-3,861'.....			..NO. SHOW. squeezed with 100 sacks cement.....			
..2. spf.....	..3,847'-3,849'.....			..250 gallons mud acid.....			
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
Size		Set At		Packer at			
2 1/2"		3,853'					
Date of First Production		Producing Method					
		<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....					
Estimated Production Per 24 Hours		Oil	Gas	Water	Gas-Oil Ratio	Gravity	
		10 Bbls	MCF	300 Bbls	CFPB		

METHOD OF COMPLETION		Production Interval
Disposition of gas: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input checked="" type="checkbox"/> Used on Lease	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perforation <input type="checkbox"/> Other (Specify)	<u>3,847' - 3,849'</u>
<input type="checkbox"/> Dually Completed <input type="checkbox"/> Conmingled	

Attached to and Made a Part
of ACO-1 (API #15-009-24,108)
WesTech Energy Co., Inc.
Carr #2
NW NE NE
Sec. 31-20-15W
Barton County, Kansas

WELL LOG CONT'D

Arbuckle	3855	3878
Arbuckle	3878	3960

RECEIVED
STATE CORPORATION COMMISSION
MAR 10 1986
CONSERVATION DIVISION
Wichita, Kansas

WOODMAN-IANNITTI DRILLING CO.

Date December 5, 1985

Company WesTech Energy Company, Inc.

Lease Carr Well No. 2

Legal Description NW NE NE, Sec. 31-20-15W, Barton County, Kansas

Well Depth 3960'

SURFACE INFORMATION

Depth Set 1050' Size and Weight of Casing 8-5/8" x 23#

Number of Sacks 200 / 200 Type of Cement Lite / 60/40 Pozmix

Additives in Cement 2% CC, 3% Gel

Cementing Company HalCo (did circulate, plug down @ 4:30 AM, 11-27-85)

IF CASING IS RUN

Depth Set 3954' Size and Weight of Casing 5-1/2" x 14#

Number of Sacks 150' Type of Cement 50/50 Pozmix

Additives in Cement 18% Salt, 3/4 of 1% CFR2, 20 Bbl. Flush

Cementing Company HalCo. (job complete @ 8:15 PM, 12-5-85)

IF WELL IS PLUGGED

Depth of Each Plug and Number of Sacks on Each _____

Type of Cement _____

Cement Additives _____

Cementing Company _____

STATE CORPORATION COMMISSION
MAR 10 1986
CONSERVATION DIVISION
Wichita, Kansas

DAVID P. WILLIAMS

Petroleum Consulting Geologists

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1105 Main, Suite B

Great Bend, Kansas 67530

Office Ph. (316) 792-5020
Mobile Ph. (316) 792-1066

Westech Energy Company, Inc.

P. O. Box 949

Great Bend, Kansas 67530

Re: #2 CARR

Nw-Ne-Ne $\frac{1}{4}$

31-20-15W.

Barton Cty., Ks.

Gentlemen;

The above captioned well was drilled via rotary tools commencing on 11/27/85 to a depth of 3960' (-1915' subsea datum) and completed drilling operations on 12/05/85 with five and one-half inch (5 $\frac{1}{2}$ ") production casing being permanently cemented. The following is the Geological report for this well.

OPERATOR:	Westech Energy Company, Inc.
CONTRACTOR:	Woodman-Iannitti Drilling-Rig #3
ELEVATIONS:	2045' K.B.; 2040' G.L.
DEPTH MEASURED FROM:	2045' K.B.
GEOLOGICAL SUPERVISION FROM:	3450' to R.T.D.
DRILLING TIME KEPT FROM:	3350' to R.T.D.
SAMPLES KEPT FROM:	3450' to R.T.D.
DRILL STEM TESTS TAKEN:	(2) Fox Testing
ELECTRIC LOGS RUN:	Welex: Gamma Guard/ CDL-CN/Cal

STRUCTURAL COMPARISONS TO NEARBY TESTS * 1

Formation	Westech Energy Co., Inc.	
	#2 CARR Nw-Ne-Ne $\frac{1}{4}$	#1 CARR Sw-Ne-Ne $\frac{1}{4}$
Anhydrite	+1001	+1001
Heebner	-1333	-1341
Iatan	-1424	-1435
Lansing	-1436	-1445
Drum "H"	-1572	-1581
Base K.C.	-1671	-1680
Re-worked		
Viola	-1733	-NC-
Simpson Sand	-1740	-NC-
Arbuckle	-1765	-1787

DRILL STEM TESTS

<u>FORMATION</u>	<u>DEPTH</u>	<u>TIMES</u>	<u>BLOW</u>
DST #1 Arbuckle	3720-3820'	30"-30"-30"-30"	Strong Blow- G.T.S./10"
Gas Gauge	1st Flow	Minuets	2nd Flow
	895 mcf	10"	Flow Mud to surface
	522 mcf	20"	
	569 mcf	30" stablized	
<u>RECOVERY :</u>	70' Gas-cut watery mud -1320' salt water		
<u>PRESSURES :</u>	IH. 2000#; FH. 1980#; IF. 478-527#; FF. 633-701#; ISIP. 1138#; FSIP. 1128#; T. 111°F.		

DST #2 Arbuckle 3843-3855 Unsuccessful tests - Plugged Anchor

DST #3 Arbuckle	3842-3855'	30"-30"-30"-30"	Strong Blow-G.T.S./5"
Gas Gauge	1st Flow	Minuets	2nd Flow
	259 mcf	10"	7,880 cf
	59.2 mcf	20"	10,600 cf
	47.7 mcf	30"	10,600 cf
<u>RECOVERY :</u>	60' Gascut Mud 720' Oil&gas cut Mud (38% oil; 15% gas; 2% water) 600' " " " " (15% oil, 10% gas, 73%Water) 500' " " " " (5% oil, 10% gas, 83%Water) 400' Salt Water chlorides 38,000Ppm		
<u>PRESSURES :</u>	IH. 2150#; FH. 2070#; IF. 469-817#; FF.934-1099#; ISIP. 1196#; FSIP. 1186#; T. 116°F.		

ZONES OF INTEREST

<u>Formation</u>	<u>Depth</u>	<u>Description</u>
Arbuckle	3810-3816'	Circulation samples; Dolomite;white/pink; fine-crystalline to sucrosic porosity; grading to large crystalline in lower part; fair to good intercrystalline porosity with show oil/gas; good cut with acid; Good odor; trace vuggular porosity; covered by DST #1; Recommend perforation 3812-16' Prior to the Abandonment of well.

Zones of Interest Con't.

Arbuckle 3822-2824' Dolomite; white; trace rhombic medium-crystalline fair porosity; trace scattered staining; show gas; fair increasing odor; good fluorescence; Electric logs calculate Sw=45%; Recommend perforation prior to abandonment of well.

Arbuckle 3848-3850' Dolomite; circulation samples; white; sucrosic to medium rhombic crystalline with good intercrystalline porosity; good deep vuggular dissolution; show oil/gas; Covered by DST #3; Recommend perforation prior to abandonment of well.

Please refer to the Geologist's Drilling Time and Sample Log for any additional information. All depths used in this report are correlated to the open-hole electric log depths:

SUMMARY

Structurally, the #2 Carr ran slightly higher than the majority of producers on the Arbuckle Formation within this field. In view of this structural position positive recoveries of oil/gas from drill stem tests taken as well as pressure data obtained, and previous investigations of wells within this pool, it was recommended that production casing be run in order to further evaluate the commercial potentials of this well. It should be anticipated that high fluid volumes may be encountered and therefore, disposal of these brines should be initiated at the earliest convenience.

Respectfully submitted,



David P. Williams

Petroleum Geologist