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DEC 31 2001  
12-31-01  
KCC WICHITA

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
**WELL COMPLETION FORM**  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Form ACO-1  
September 1999  
Form Must Be Typed

ORIGINAL

Operator: License # 3080  
Name: JACK EXPLORATION, INC.  
Address: P.O. BOX 1279  
City/State/Zip: SULPHUR, OK 73086  
Purchaser: WESTERN GAS COMPANY  
Operator Contact Person: JAMES R. JACK  
Phone: ( 580 ) 622-2310  
Contractor: Name: DUKE DRILLING CO., INC.  
License: 5929  
Wellsite Geologist: MIKE POLLOK; MAP EXPLORATION, INC.

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     SWD     SIOW     Temp. Abd.  
 Gas     ENHR     SIGW  
 Dry     Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening     Re-perf.     Conv. to Enhr./SWD  
 Plug Back    \_\_\_\_\_ Plug Back Total Depth  
 Commingled    Docket No. \_\_\_\_\_  
 Dual Completion    Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?)    Docket No. \_\_\_\_\_

09/26/01    10/03/01    10/24/01  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 007-22680-0000

County: BARBER

NE SE Sec. 9 Twp. 35 S. R. 14  East  West

1980 feet from (S) / N (circle one) Line of Section

660 feet from (E) / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

(circle one) NE (SE) NW SW

Lease Name: WOLGAMOTT Well #: 2-9

Field Name: AETNA SE

Producing Formation: MISSISSIPPIAN

Elevation: Ground: 1470 1463 Kelly Bushing: 1484 1474

Total Depth: 5000 Plug Back Total Depth: 5000

Amount of Surface Pipe Set and Cemented at 284 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan ACT 1 2-12-02 DAW  
(Data must be collected from the Reserve Pit)

Chloride content 30,000 ppm Fluid volume 9870 bbls

Dewatering method used HAULED TO OFFSITE PIT 3640

Location of fluid disposal if hauled offsite: WATER TO SWD 260

Operator Name: OIL PRODUCERS OF KANSAS

Lease Name: MAY 13-3 License No.: 8061

Quarter CNW Sec. 13 Twp. 35 S. R. 16  East  West

County: COMANCHE Docket No.: 27,726

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of 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 geologist well report 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.

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: James R. Jack  
Title: PRESIDENT Date: 12/26/01

Subscribed and sworn to before me this 26th day of December

~~12~~ 2001  
Notary Public: Kelly Aaron

Date Commission Expires: MARCH 12, 2002

KCC Office Use ONLY

- NO Letter of Confidentiality Attached
- If Denied, Yes  Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution

Operator Name: JACK EXPLORATION, INC. Lease Name: WOLGAMOTT Well #: 2-9  
 Sec. 9 Twp. 35 S. R. 14  East  West County: BARBER

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  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 Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i>  List All E. Logs Run: <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> DUAL INDUCTION, DENSITY, MICROLOG <i>Bound</i>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>TOP PENN</td> <td>2962</td> <td>-1488</td> </tr> <tr> <td>BASE HERBNER</td> <td>3934</td> <td>-2460</td> </tr> <tr> <td>LANSING</td> <td>4114</td> <td>-2640</td> </tr> <tr> <td>CHEROKEE SHALE</td> <td>4774</td> <td>-3300</td> </tr> <tr> <td>MISS. DET.</td> <td>4800</td> <td>-3326</td> </tr> <tr> <td>MISSISSIPPIAN</td> <td>4839</td> <td>-3365</td> </tr> </table>	Name	Top	Datum	TOP PENN	2962	-1488	BASE HERBNER	3934	-2460	LANSING	4114	-2640	CHEROKEE SHALE	4774	-3300	MISS. DET.	4800	-3326	MISSISSIPPIAN	4839	-3365
Name	Top	Datum																				
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MISS. DET.	4800	-3326																				
MISSISSIPPIAN	4839	-3365																				

CASING RECORD <input checked="" 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
CONDUCTOR		20"		75'			
SURFACE	12 1/4"	8 5/8"	24#	284'	ClassA	200	3% cc
PRODUCTION	7 7/8"	4 1/2"	11.6#	5000'	Scav/ClassA	50/150	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

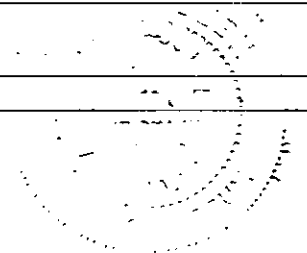
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2/ft	4898-4876	5000 75% 56,000#Sd w/ nitrogen	
2/ft	4825-4844	6500 15%	
	4805-4792		

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
	2 3/8"	4765		

Date of First, Resumed Production, SWD or Enhr.	Producing Method <input checked="" type="checkbox"/> Flowing <input 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
		1669 MCF	0		.6396

Disposition of Gas	METHOD OF COMPLETION	Production Interval
<input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Sumit ACO-18.)</i>	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	



ORIGINAL

15-057-22680-0000



# MAP EXPLORATION, INC.

MICHAEL ANTHONY POLLOK, PRES.

OFFICE 405/527-6038 ■ HOME 405/527-5200 ■ MOBILE 405/823-4493 ■ FAX 405/527-7629  
■ E-MAIL: mapexpl@aol.com

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## GEOLOGICAL REPORT WOLGAMOTT 2-9 NE/4 SE/4 SECTION 9 - T35S - R14W BARBER COUNTY, KANSAS

### SUMMARY

The above captioned well was drilled to a total depth of 5,000 feet on October 4, 2001. A one-man mud-logging unit was on location from 3,000 feet to TD, with samples being analyzed from 3,800 feet to TD. The well was under the geological supervision of the undersigned from approximately 4,500 feet to TD. At TD, ELI electric logs were run that consisted of Dual induction, Compensated Neutron - density and Micro-log. From data collected while drilling and analyzing, hydrocarbon shows were encountered in the Kansas City aged Hertha Limestone, the Mississippian Detrital and the Mississippian Dolomite zones. The decision was made to set production casing and complete the well in the above mentioned zones.

### HERTHA LIMESTONE

The Hertha Limestone porosity was drilled at 4,618 (-3144) feet. Samples were described as off-white to cream buff, very fine to fine crystalline, slightly sucrosic limestone, with a trace of intercrystalline, pinpoint and vugular porosity. A trace of dull yellow fluorescence was observed along. No visible cut staining or odor was observed. A 63-unit gas kick was recorded on the gas chromatograph through a two-foot drilling break. Electric logs indicate a two-foot zone of 16% porosity with 2 feet of fair micro-log separation that calculates productive.

### MISSISSIPPIAN

The Mississippian Detrital was topped at 4,800 (-3326) feet. This zone consisted of two intervals, an upper five-foot interval and a lower twelve-foot interval with porosity averaging 17% in the upper zone and 16% in the lower zone. There were six feet of positive micro-log separation between the two zones. Samples were described as a mixture of off-white to cream buff dolomite with sucrosic texture that also had pinpoint and vugular porosity and opaque milky and tripolitic chert. Sand grains were also observed and were round to sub-round. An average of 60 units of gas was observed from the chromatograph, along with a bright yellow green fluorescence with good streaming cut, trace of light brown live oil staining and fair odor.

The top of the Mississippian Unconformity was cut at 4,839 (-3365) feet. Samples were described as off-white to cream tan, very fine to fine crystalline dolomite, with a trace of intercrystalline porosity.

A 188-unit gas kick was recorded approximately 30 feet into the Mississippian. Samples were described as tan to light brown fine crystalline glauconitic dolomite with some pinpoint and vugular porosity being observed. Electric logs indicate a 22-foot zone of average porosity of 15% that has no micro-log separation, but both curves are indicating some permeability.

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ELECTRIC LOG TOPS

	JACK WOLGAMOTT 2-9 NE/4 SE/4 9-T35S-R14W	JACK WOLGAMOTT 1-9 NE/4 9-T35S-R14W	SHENANDOAH C WOLGAMOTT 1 S/2 9-T35S-R14W
CHASE (subsea)	2013 (-539)	2017 (-540)	2022 (-553)
TOP PENN. (subsea)	2962 (-1488)	2966 (-1489)	2968 (-1499)
BS. HEEBNER (subsea)	3934 (-2460)	3938 (-2461)	3938 (-2469)
LANSING (subsea)	4114 (-2640)	4116 (-2639)	4122 (-2653)
STARK SHALE (subsea)	4574 (-3100)	4570 (-3093)	4580 (-3111)
CHEROKEE SH. (subsea)	4774 (-3300)	4766 (-3289)	4782 (-3313)
MISS DETRITAL (subsea)	4800 (-3326)	4793 (-3316)	4814 (-3335)
MISS UNCONFORM. (subsea)	4839 (-3365)	4818 (-3341)	4841 (-3372)

**CONCLUSION**

The Wolgamott 1-9 was drilled as an infield development well for Hertha Limestone, Detrital and Mississippian Dolomites. Electric logs indicate a Mississippian Dolomite zone of 22 feet that should have commercial quantities of gas after acid and fracture treatments. The detrital intervals of a total of 18 feet should also make commercial quantities of natural gas. The Hertha Limestone also should make commercial quantities of hydrocarbons and should be tested prior to abandonment of the well. After all data was analyzed, the decision was made to set pipe and attempt completion in the above mentioned zones.

I recommend perforating the detrital from 4,800 - 4,805 & 4,826 - 4,839; & the Mississippian Dolomite from 4,876 - 4898.

Respectfully submitted



Mike Pollok  
Petroleum Geologist  
10/16/01

# ALLIED CEMENTING CO., INC.

8419

Federal Tax I.D.# 48-0727860

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

SERVICE POINT:  
MED. LODGE

DATE <u>9-26-01</u>	SEC. <u>9</u>	TWP. <u>35s</u>	RANGE <u>14W</u>	CALLED OUT <u>10:00 A.M.</u>	ON LOCATION <u>12:30 P.M.</u>	JOB START <u>2:40 P.M.</u>	JOB FINISH <u>3:15 P.M.</u>
LEASE <u>Wolfgang</u>		WELL # <u>#2-9</u>	LOCATION <u>HARDNER 10W N into</u>		COUNTY <u>BARBER</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Duke #1  
 TYPE OF JOB SURFACE  
 HOLE SIZE 12 1/4 T.D. 297.14  
 CASING SIZE 8 5/8 DEPTH 295.14  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE 4 1/2 DEPTH 297.14  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX 250 MINIMUM 100  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT 40.76  
 CEMENT LEFT IN CSG. 40.76 FT  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 16 BBL

OWNER JACK EXPLORATION  
 CEMENT  
 AMOUNT ORDERED 200 SK CLASS "A"  
3% CACC<sup>2</sup>  
 COMMON A 200 @ 6.65 1330.00  
 POZMIX \_\_\_\_\_ @ \_\_\_\_\_  
 GEL \_\_\_\_\_ @ \_\_\_\_\_  
 CHLORIDE 7 @ 30.00 210.00  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 HANDLING 207 @ 1.10 227.70  
 MILEAGE 207 x 30 .04 248.40

### EQUIPMENT

PUMP TRUCK CEMENTER DIVID WEST  
 # 302 HELPER STEVE D  
 BULK TRUCK  
 # 311 DRIVER LARRY G.  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

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TOTAL 2016.10

### REMARKS:

### SERVICE

Pipe on Bottom Break C.M.  
Pump 200sk A + 3% CC  
Displace w/ Fresh H<sub>2</sub>O  
Cement Old C.M.  
Shut in

DEPTH OF JOB 295'  
 PUMP TRUCK CHARGE \_\_\_\_\_ 520.00  
 EXTRA FOOTAGE @ \_\_\_\_\_  
 MILEAGE 30 @ 3.00 90.00  
 PLUG WOODEN 8 5/8" @ 45.00 45.00  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_

TOTAL 655.00

CHARGE TO: JACK EXPLORATION

STREET \_\_\_\_\_

CITY FREEDOM STATE OKLA. ZIP \_\_\_\_\_

### FLOAT EQUIPMENT

1-Baffle Plate @ 45.00 45.00  
1-Centralizer @ 55.00 55.00  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_

TOTAL 100.00

To Allied Cementing Co., Inc.

You are hereby requested to rent cementing 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 CONDITIONS" listed on the reverse side.

SIGNATURE x Alan Watson

TAX \_\_\_\_\_  
 TOTAL CHARGE 2777.10  
 DISCOUNT 277.10 IF PAID IN 30 DAYS  
2499.99  
 x Alan Watson  
 PRINTED NAME

# ALLIED CEMENTING CO., INC. ORIGINAL 08691

Federal Tax I.D.# 48-0727860

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

SERVICE POINT:  
Medicine Ledge

DATE <u>10-4-01</u>	SEC. <u>19</u>	TWP. <u>29W</u>	RANGE <u>16W</u>	CALLED OUT <u>1:30 pm</u>	ON LOCATION <u>2:30 pm</u>	JOB START <u>8:00 pm</u>	JOB FINISH <u>8:30 pm</u>
LEASE <u>W. J. Gamett</u>		WELL # <u>2-9</u>		LOCATION <u>Hardtner 10w N/S</u>		COUNTY <u>Barber</u>	STATE <u>Ks</u>
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Duke  
 TYPE OF JOB production  
 HOLE SIZE 7 1/2 T.D. 5000'  
 CASING SIZE 4 1/2 x 11.6 DEPTH 5014  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX 1150 MINIMUM 100  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT 19.44  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 79 1/2 Bbls 2% KCL

OWNER Jack exploration  
 CEMENT AMOUNT ORDERED  
200 sx Class H ASC + 5# Kol-seal + 1/4 Flo-seal  
8 Gals Clapro  
 COMMON \_\_\_\_\_ @ \_\_\_\_\_  
 POZMIX \_\_\_\_\_ @ \_\_\_\_\_  
 GEL \_\_\_\_\_ @ \_\_\_\_\_  
 CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_  
 Class H ASC 200 sx @ 10.05 2010.00  
 Kol-seal 1000 # @ .50 500.00  
 Flo-seal 50 # @ 1.40 70.00  
 Clapro 8 gal @ 22.90 183.20  
 HANDLING 258 sx @ 110 283.80  
 MILEAGE 30 x .04 x 258 309.60  
 TOTAL 3356.60

EQUIPMENT  
 PUMP TRUCK CEMENTER Carl Balding  
 #360-263 HELPER Mike Rucker  
 BULK TRUCK  
 # 353 DRIVER Chris Lunsford  
 BULK TRUCK  
 # DRIVER \_\_\_\_\_

**REMARKS:**

**SERVICE**

Run casing + Break circulation circulate 35 min.  
 Plug rat + mouse hole with 25 sx cement (20)  
 Mix + pump 50 sx class H scavenger cement (40)  
 + 150 sx class H ASC cement at normal weight  
 Cement in stop pumps + wash out pumps + lines,  
 Release plug + Displace with 79 1/2 Bbls 2% KCL water,  
 Bump plug + Float held.

DEPTH OF JOB 5014  
 PUMP TRUCK CHARGE \_\_\_\_\_ 1264.00  
 EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_  
 MILEAGE 30 @ 3.00 90.00  
 PLUG Rubber @ \_\_\_\_\_ 48.00  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_

CHARGE TO: Jack Exploration  
 STREET \_\_\_\_\_  
 CITY FREEDOM STATE OKLA. ZIP \_\_\_\_\_

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1- Reg Guide shoe @ \_\_\_\_\_ 125.00  
 1- AFV Insert @ \_\_\_\_\_ 210.00  
 3- Centralizers @ 45.00 135.00  
 3- Spiralizers @ 237.00 711.00  
 \_\_\_\_\_ @ \_\_\_\_\_  
 TOTAL 1181.00

To Allied Cementing Co., Inc.  
 You are hereby requested to rent cementing 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 CONDITIONS" listed on the reverse side.

TAX \_\_\_\_\_  
 TOTAL CHARGE 5939.60  
 DISCOUNT 593.96 IF PAID IN 30 DAYS  
 NET: 5345.64  
 SIGNATURE ALAN WATSON  
 PRINTED NAME

SIGNATURE Alan Watson