

SIDE ONE

FORM MUST BE TYPED

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

API NO. 15- 091-228730000
County Johnson
60'S - NW - NW - NW Sec. 34 Twp. 14 Rge. 24 X E W

Operator: License # 32294
Name: OSBORN ENERGY L.L.C.

Address: 9401 Indian Creek Pkwy., #40, Suite 440

City/State/Zip Overland Park, KS 66210

Purchaser: AKAWA Natural Gas, L.L.C.

Operator Contact Person: Steve Allee

Phone (913) 327-1831

Contractor: Name: Rig 6 Drilling Co.

License: 30567

Wellsite Geologist: Rex Ashlock

Designate Type of Completion

X New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.

X Gas ENHR x SIGW

Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator:

Well Name:

Comp. Date Old Total Depth

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBSD

Commingled Docket No.

Dual Completion Docket No.

Other (SWD or Inj?) Docket No.

8/20/98 8/27/98 waiting on completion
Spud Date Date Reached TD Completion Date

4890 feet from (N) Line of Section
4950 feet from (W) Line of Section

Footages Calculated from Nearest Outside Section Corner

NE, (SE), NW or SW (circle one)

Lease Name Osborn/Jones Well # 2A-34

Field Name Stillwell

Producing Formation N/A

Elevation: Ground 1010' KB

Total Depth 1305' PBSD

Amount of Surface Pipe Set and Cemented at 20 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set N/A Feet

If Alternate II completion, cement circulated from 1230

feet depth to surface w/ 257 sx cmt.

Drilling Fluid Management Plan AH-2, 1-5-99 U.C.
(Data must be collected from the Reserve Pit)

Chloride content N/A ppm Fluid volume 500 +/- bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite:

Operator Name

Lease Name License No.

Quar. RELEASED Twp. S Rng. KCC E/W

County Docket No.

MAY 07 2001

DEC 01 1998

FROM CONFIDENTIAL

CONFIDENTIAL

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 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 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 [Signature] Title Geologist Date 12-01-98

Subscribed and sworn to before me this 15th day of December 19 98.

Notary Public Susan L. Forward

Date Commission Expires 4-10-02

SUSAN L. FORWARD
Notary Public
State of Kansas
My Appt. Expires 4-10-02

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received

Distribution
KCC SWD/Rep NGPA
KGS Plug Other (Specify)

Operator Name Osborn Energy, L.L.C. Lease Name Osborn/Jones Well # 2A-34
 Sec. 34 Twp. 14 Rge. 24 East County Johnson
 West

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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Drillers Log Attached		
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	RECEIVED STATE CORPORATION DIVISION DEC 4 - 1998 WICHITA, KANSAS KCC DEC 01 1998 CONFIDENTIAL		
List All E.Logs Run: Dual Induction and Neutron/Density Porosity				

Casing Record							
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 1/2"	8 5/8"	24.0	50'	Class A	38	2% gel, 2% gilsonite, 2% flo-seal, 3% CaCl
Production	7 7/8"	5 1/2"	9.0	1230'	Class A	257	2% gel, 2% gilsonite, 2% flo-seal, 2% CaCl

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				

RELEASED
MAY 07 2001
FROM CONFIDENTIAL

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
	Waiting Completion		

TUBING RECORD	Size	Set At	Packer At 1210'	Liner Run	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Date of First, Resumed Production, SWD or Inj. Waiting on completion	Producing Method N/A	<input type="checkbox"/> Flowing	<input type="checkbox"/> Pumping	<input type="checkbox"/> Gas Lift	<input type="checkbox"/> Other (Explain)
Estimated Production Per 24 Hours	Oil N/A Bbl.	Gas SIGW Mcf	Water N/A Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas Vented Sold Used on Lease

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled

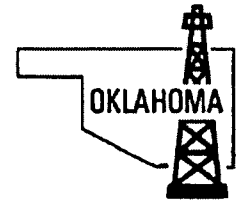
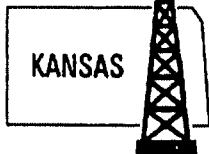
Production Interval _____

(If vented, submit ACO-18.) Other (Specify) _____ SIGW

ORIGINAL

RIG 6 DRILLING CO.

RT. 1, BOX 132
BRONSON, KS 66716



R.K. (Bud) SIFERS
(316) 939-4330

JOHN J. BARKER
(316) 365-7806

CONFIDENTIAL

Company: Osborn Energy , LLC
Address: 9401 Indian Creek Parkway
Overland Park, KS 66210
Lease: Jones *Osborn/Jones*
County: Johnson
Location: 4890 FSL/ 4950 FEL
Sec. 34/Twp. 14 / Rge. 24e

Commenced: 8/20/98
Completed: 8/27/98
Well#: 2 - A - 34
API#: 15-091-22,873
Status: Gas Well
Casing: 56' - 8 5/8 surface Consolidated

11 Soil & Clay
30 Shale (Sh)
31 Sand (Sa)
50 Limestone (Ls)
80 Ls w/ sa sh brks
91 Sh
98 Ls
130 Sh
135 Ls
190 Sh
213 Ls
221 Sh
262 Ls
369 Sh w/ sa sh brks
380 Sa

380 Sa
448 Sh
451 Ls
464 Sh
471 Ls
489 Sh
492 Ls
495 Sh (blk/ co)
504 Sh w/ ls strks
514 Ls w/ sa strks
646 Sh
650 Sh (blk)
680 Sh
682 Sh (red)
686 Sh
688 Sh (blk co)
724 Sh w/ sa sh
726 Ls
730 Sh
733 Sh (blk / co)
737 Sh
738 Sh (blk)
766 Sh

819 Sh w/ sa sh
840 Sh
848 Sh (blk)
862 Sh w/ sa
864 Coal (Co)
868 Sh
874 Sa
907 Sa sh
910 Sh (blk)
949 Sh
1189 Ls w/ chert
1194 Sa ls
1227 Ls
1250 Ls (chert)
1305 Ls

CONSERVATION DIVISION
Wichita, Kansas

DEC 4 - 1998

RECEIVED
STAFF INFORMATION DIVISION

KCC
DEC 01 1998
CONFIDENTIAL

RELEASED

MAY 07 2001

FROM CONFIDENTIAL

ORIGINAL

CONSOLIDATED INDUSTRIAL SERVICES, INC.
211 W. 14TH STREET, CHANUTE, KS 66720
316-431-9210 or 800-467-8676

TICKET NUMBER 08239

LOCATION *Osborn Energy*

FOREMAN *[Signature]*

CONFIDENTIAL

TREATMENT REPORT

PO # 96221

DATE 8/21/98	CUSTOMER ACCT # 6073	WELL NAME #2A-34 Osborn/Konos	OTR/QTR	SECTION 34	TWP 14	RGE 24	COUNTY 30	FORMATION
CHARGE TO Osborn Energy LLC 40 Corp Woods Hwy 40				OWNER				
MAILING ADDRESS 9401 Indian Creek Parkway				OPERATOR Lex Ashlock				
CITY Overland Park				CONTRACTOR Rig 6				
STATE KS		ZIP CODE 66210-2007		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 6:30 AM				TIME LEFT LOCATION 8:30 AM				

WELL DATA	
MOLE SIZE 12 1/8"	TOTAL DEPTH 50'
CASING SIZE 8 5/8"	CASING DEPTH 49'
CASING WEIGHT	CASING CONDITION
TUBING SIZE	TUBING DEPTH
TUBING WEIGHT	TUBING CONDITION
PACKER DEPTH	
PERFORATIONS SHOTS/FT	
OPEN HOLE	

RECEIVED
STATE REPLENISHMENT COMMISSION
Wichita, Kansas
MAY 4 - 1998
KCC

TYPE OF TREATMENT	
<input checked="" type="checkbox"/> SURFACE PIPE	<input type="checkbox"/> ACID BREAKDOWN
<input type="checkbox"/> PRODUCTION CASING	<input type="checkbox"/> ACID STIMULATION
<input type="checkbox"/> SQUEEZE CEMENT	<input type="checkbox"/> ACID SPOTTING
<input type="checkbox"/> PLUG & ABANDON	<input type="checkbox"/> FRAC + NITROGEN
<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> FOM/FRAC
<input type="checkbox"/> MISC PUMP	<input type="checkbox"/> NITROGEN
<input type="checkbox"/> OTHER	

RELEASE
MAY 07 2001
FROM CONFIDENTIAL

PRESSURE LIMITATIONS		
	THEORETICAL	INSTRUCTED
SURFACE PIPE		
ANNULUS LONG STRING		
TUBING		

TREATMENT VIA
INSTRUCTIONS PRIOR TO JOB
DEC 01 1998

CONFIDENTIAL

JOB SUMMARY

DESCRIPTION OF JOB EVENTS: Establish circulation mixed pump 38.5% class A cement 20 bags, 20 gal water, 20 gal FLO-Seal, 20 gal Calcium Chloride. Displace cement with 234 bbls H₂O circulating cement to surface. ✓

PRESSURE SUMMARY	
BREAKDOWN or CIRCULATING	PSI
FINAL DISPLACEMENT	PSI
ANNULUS	PSI
MAXIMUM	PSI
MINIMUM	PSI
AVERAGE	PSI
ISIP	PSI
5 MIN SIP	PSI
15 MIN SIP	PSI

TREATMENT RATE	
BREAKDOWN BPM	
INITIAL BPM	
FINAL BPM	
MINIMUM BPM	
MAXIMUM BPM	
AVERAGE BPM	
HYD PHP = RATE x PRESSURE x 40.8	

AUTHORIZATION TO PROCEED TITLE DATE

CONFIDENTIAL

ORIGINAL

CONSOLIDATED INDUSTRIAL SERVICES, INC.
211 W. 14TH STREET, CHANUTE, KS 66720
316-431-9210 or 800-467-8676

TICKET NUMBER 09327
LOCATION Attenu, Ks
FOREMAN Jim Green

TREATMENT REPORT

P.O. # 96240

DATE	CUSTOMER ACCT #	WELL NAME	QTR/QTR	SECTION	TWP	RGE	COUNTY	FORMATION
8-28-98	6073	2A-34 Osborn Jones		34	14	24	JO	
CHARGE TO <u>Osborn Energy LLC</u>				OWNER				
MAILING ADDRESS <u>40 Corp. Woods Dr. 440</u>				OPERATOR <u>Rex Ashlock</u>				
CITY <u>Overland Park,</u>				CONTRACTOR <u>Rig 6</u>				
STATE <u>Ks</u> ZIP CODE <u>66210-2007</u>				DISTANCE TO LOCATION <u>40</u>				
TIME ARRIVED ON LOCATION <u>2:30 PM</u>				TIME LEFT LOCATION <u>4:00 PM</u>				

WELL DATA	
MOLE SIZE	<u>2 7/8"</u>
TOTAL DEPTH	<u>1320'</u>
CASING SIZE	<u>5 1/2"</u>
CASING DEPTH	<u>1230' packer seats 1210'</u>
CASING WEIGHT	
CASING CONDITION	
TUBING SIZE	
TUBING DEPTH	
TUBING WEIGHT	
TUBING CONDITION	
PACKER DEPTH	
PERFORATIONS	
SHOTS/FT	
OPEN HOLE	
TREATMENT VIA	

TYPE OF TREATMENT	
<input type="checkbox"/> SURFACE PIPE	<input type="checkbox"/> ACID BREAKDOWN
<input checked="" type="checkbox"/> PRODUCTION CASING	<input type="checkbox"/> ACID STIMULATION
<input type="checkbox"/> FREEZE CEMENT	<input type="checkbox"/> ACID SPOTTING
<input type="checkbox"/> PLUG & ABANDON	<input type="checkbox"/> FRAC
<input type="checkbox"/> BACK	<input type="checkbox"/> FRAC + NITROGEN
<input type="checkbox"/> MISC PUMP	<input type="checkbox"/> FOAM FRAC
	<input type="checkbox"/> NITROGEN

RELEASED
MAY 01 2001
FROM CONFIDENTIAL

PRESSURE LIMITATIONS		
	THEORITICAL	INSTRUCTED
SURFACE PIPE		
ANNULUS LONG STRING	KCC	
TUBING		

DEC 01 1998

CONFIDENTIAL

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Establish circulation mix and pump 25% Potassium Chloride
Flush with app. 10 bbls H₂O. Mix and pump 257 sa Class A cement with
22 gal. 2% Gelsite, 23 FLO-seal, 2% Calcium Chloride. Flush pump
clean w/ cement. Pump 5 1/2" tooth down plug to insert, lock plug down check
with wire line after setting. Set at 1210', Circulated cement to
surface.

PRESSURE SUMMARY	
BREAKDOWN or CIRCULATING	psi
FINAL DISPLACEMENT	psi
ANNULUS	psi
MAXIMUM	psi
MINIMUM	psi
AVERAGE	psi
ISIP	psi
5 MIN SIP	psi
15 MIN SIP	psi

TREATMENT RATE	
BREAKDOWN BPM	
INITIAL BPM	
FINAL BPM	
MINIMUM BPM	
MAXIMUM BPM	
AVERAGE BPM	
HYD HHP = RATE x PRESSURE x 40.8	

AUTHORIZATION TO PROCEED

TITLE

DATE

*CORRECTED

ORIGINAL

FORM MUST BE TYPED

SIDE ONE

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

API NO. 15- 091-228730000

County Johnson

60'S - NW - NW - NW Sec. 34 Twp. 14 Rge. 24 X E W

4890 feet from SE (circle one) Line of Section

4950 feet from SE (circle one) Line of Section

CONFIDENTIAL

Operator: License # 32294

Name: OSBORN ENERGY L.L.C.

Address: 9401 Indian Creek Pkwy., #40, Suite 440

City/State/Zip Overland Park, KS 66210

Purchaser: AKAWA Natural Gas, L.L.C.

Operator Contact Person: Steve Allee

Phone (913) 327-1831

Contractor: Name: Rig 6 Drilling Co.

License: 30567

Wellsite Geologist: Rex Ashlock

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:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBTB

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

8/20/98 8/27/98 waiting on completion
Spud Date Date Reached TD Completion Date

Footages Calculated from Nearest Outside Section Corner

NE, SE, NW or SW (circle one)

Lease Name Osborn/Jones Well # 2A-34

Field Name Stilwell

Producing Formation N/A

Elevation: Ground 1010' KB _____

Total Depth 1305' PBTB _____

Amount of Surface Pipe Set and Cemented at 20 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set N/A Feet

If Alternate II completion, cement circulated from 1230

feet depth to surface w/ 257 sx cmt.

CORRECTED

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content N/A ppm Fluid volume 500 +/- bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

Quarter Sec. Twp. S Rng. E/W

County RECEIVED Docket No. _____

KANSAS CORPORATION COMMISSION

FEB 15 2000

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 1117 Market Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of well. Rule 82-3-130, 82-3-106 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 82-3-109 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 plugged wells.

RELEASED
MAY 17 2001

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 [Signature]

Title Geologist Date 6-16-99

Subscribed and sworn to before me this 16th day of June, 19 99.

Notary Public [Signature]

Date Commission Expires 4-10-02

K.C.C. OFFICE USE ONLY
 Letter of Confidentiality Attached
 Wireline Log Received
 Geologist Report Received

Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

SUSAN L. FORWARD
Notary Public
State of Kansas
My Appt. Expires 4-10-02

SIDE TWO

Operator Name Osborn Energy, L.L.C. Lease Name Osborn/Jones Well # 2A-34
 Sec. 34 Twp. 14 Rge. 24 East County Johnson
 West

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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Electric Log Run (Submit Copy.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
List All E.Logs Run:				

Casing Record New 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

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
* 6	729.0'-731.0'	20,000 lbs. of sand in N ₂ foam 15lbs. linear gel	

TUBING RECORD	Size	Set At	Packer At 1210'	Liner Run	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Date of First, Resumed Production, SWD or Inj. Waiting on completion	Producing Method N/A	<input type="checkbox"/> Flowing	<input type="checkbox"/> Pumping	<input type="checkbox"/> Gas Lift	<input type="checkbox"/> Other (Explain)
Estimated Production Per 24 Hours	Oil N/A Bbl.	Gas SIGW Mcf	Water N/A Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas Vented Sold Used on Lease

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled

(If vented, submit ACO-18.) Other (Specify) SIGW

FIELD WORK ORDER, INVOICE AND CONTRACT

ORIGINAL

LOG-TECH, INC.
1011 240th AV.

0777

CONFIDENTIAL

HAYS, KS. 67601
PHONE 785-625-3858

P.O. # 555 36

Date 11/19/1998	Charge To: <u>Osborn Energy, L.L.C.</u>	Lease and Well No. <u>Osborn-Jones No. 2A-34</u>
Operator <u>Drylie</u>	Address	Field
<u>Siruta / Schmeidler</u>	City & State <u>DEC 1, 1998</u>	Legal Description <u>4890' FSLC 4950' FEL</u>
Customer's T.D. <u>1197</u>	Fluid Level <u>Full</u>	Casing Size <u>5 1/2"</u>
T.D.	Type Fluid in Hole <u>Water</u>	Casing Wt.
Zero	Elevation	Casing Depth
<u>Ground Level</u>		County <u>Johnson</u>
		State <u>Kansas</u>

- The authorized agent and representative of the owner agrees to the following general terms and conditions of services to be rendered or which have been rendered:
- (1) All accounts are due and must be paid within 30 days from the date of services of Bluestem Wireline Inc., and should these terms not be observed, interest at the rate of 18% per annum will be charged from the date of the services.
 - (2) Because of the uncertain conditions and hazards existing in a well which are beyond the control of Bluestem Wireline, Inc., it is understood and agreed by the parties hereto that Bluestem Wireline, Inc. cannot guarantee the results of its efforts and its services and will not be held responsible for personal or property damage in the performance of its services.
 - (3) Should any Bluestem Wireline, Inc. instruments or equipment be lost or damaged in the performance of the operations requested, the customer agrees to make every reasonable effort to recover the same, and to reimburse Bluestem Wireline, Inc. for the value of the items which cannot be recovered, or the cost of repairing damage to items recovered.
 - (4) The customer certifies that he has the full right and authority to order such work on such well and that the well in which the work is to be performed by Bluestem Wireline, Inc. is in proper and suitable condition for the performance of said work and the Bluestem Wireline, Inc. is merely working under the directions of the customer.
 - (5) The customer agrees to pay any and all taxes, fees and charges placed on services rendered by Bluestem Wireline, Inc. by governmental requirements including city, county, state and federal taxes and fees or reimburse Bluestem Wireline, Inc. for such taxes and fees paid to said agencies.
 - (6) No employee is authorized to alter the terms or conditions of this agreement between Bluestem Wireline, Inc. and the customer.
 - (7) I certify that the services have been performed by Bluestem Wireline, Inc. under my directions and control, and that all zones perforated were designated by me and all depth measurements were checked and approved.
 - (8) It is further stipulated and agreed to between the parties hereto that this agreement shall not become effective until the same is approved by Bluestem Wireline, Inc., in Leon, Butler County, Kansas, and that said Bluestem Wireline, Inc. and the customer agree that should either party to this action fail to fulfill the terms of the fieldwork order, invoice and contract, that the venue of any action, either in law or equity to enforce the terms of the same is agreed by the parties hereto to be in Butler County, Kansas.

Dated in Leon, Kansas, this _____ day of _____, 19____

Bob McNew

CUSTOMER

AUTHORIZED AGENT AND REPRESENTATIVE
BLUESTEM WIRELINE, INC.

FROM CONFIDENTIAL
OFFICER

WORK PERFORMED	PRICING
Perforated With <u>3 1/8" HSC</u> as Follows:	SET UP: <u>Truck Rental</u> \$ <u>450.00</u>
From <u>729</u> ft. to <u>731</u> ft., <u>12</u> Shots	PERFORATING: 1st <u>10</u> Shots \$ <u>700.00</u>
From _____ ft. to _____ ft., _____ Shots	Next <u>2</u> Shots @ \$ <u>22</u> Ea. \$ <u>44.00</u>
From _____ ft. to _____ ft., _____ Shots	Next _____ Shots @ \$ _____ Ea. \$ _____
From _____ ft. to _____ ft., _____ Shots	LOGGING: Logging Chg. _____ ft. @ \$ _____ ft. \$ _____
From _____ ft. to _____ ft., _____ Shots	BRIDGE PLUG: Type _____ Depth _____ \$ _____
From _____ ft. to _____ ft., _____ Shots	CEMENT LOCATOR SURVEY: \$ _____
	SUB TOTAL..... \$ <u>1194.00</u>
	Discount <u>●</u> \$ <u>739.00</u>
	TOTAL..... \$ <u>455.00</u>

Less Discount if Paid
Within 30 Days

RELEASED
MAY 07 2008

CONFIDENTIAL

ORIGINAL

Service Ticket No.: 200013 API Serial No.: PGM Version:

Remarks:

RECORDED BY: S. WEHMEYER

TRACED BY: S. DICK

KCC

DEC 1998

CONFIDENTIAL

RELEASED

PROTECHNICS DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY PROTECHNICS PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT PROTECHNICS IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSSES, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.

MAY 07 2001

PROTECHNICS
FROM CONFIDENTIAL

WELL INFORMATION OSB-JONES 2A-34

FORMATION: TESO COAL

CASING: 5.5 IN 20 LB/FT TOP: SURFACE BOTTOM: TD PBDT: 1197 FT

PERFORATIONS: 729 - 731 FT (6 SPF, 0.38" DIAM., 60 DEGREE PHASING, 12 HOLES)

TRACER INFORMATION

TREATMENT DATE: 11/23/98

TRACERS	FORM	TYPE	AMOUNT	CONC.	TOTAL ACTIVITY
Sc-46 LIQ. ZERO WASH	SOLID	PAD	6,000 GAL	0.5 mCi/1000 GAL	3 mCi
Ir-192 ZERO WASH	SOLID	0.5-4 PPG 20/40 & 12/20 SAND	20,000 LB	0.5 mCi/1000 LB	10 mCi

SERVICE COMPANY: HALLIBURTON ENERGY SERVICES

TREATMENT: PUMP PROP FRAC TREATMENT AT AN AVERAGE OF 9.0 BPM @ 2,950 PSI (ISIP = 1,700 PSI). PUMP A TOTAL OF 6,000 GAL OF PAD; 2,500 LB OF 20/40 OTTAWA SAND AND 17,500 LB OF 12/20 BRADY SAND IN A 65Q N2 FOAMED 15# LINEAR GEL.

OBSERVATIONS

- PROPPED FRACTURE HEIGHT DEVELOPMENT IS OBSERVED FROM AT LEAST 722 TO 735 (A TOTAL OF 13 FT).
- THE Ir-192 TRACER COUNTS OBSERVED AT APPROXIMATELY 743 AND 838 FT APPEAR TO REPRESENT TRACED MATERIAL THAT IS CAUGHT WITHIN TUBULAR CONNECTIONS AND AS SUCH ARE NOT FRACTURE RELATED.
- THE COMBINED TRACER COUNTS OBSERVED IN THE VICINITY OF LOGGER'S TD APPEAR TO REPRESENT TRACED MATERIAL WITHIN THE WELLBORE AND AS SUCH ARE NOT FRACTURE RELATED.
- NEAR-WELLBORE FLOW CAPACITIES AND WELLBORE TO FORMATION COMMUNICATION SHOULD BE ADEQUATE ACROSS THE PERFORATED INTERVAL.
- THE HIGH Sc-46 TRACED PAD COUNTS OBSERVED ACROSS THE PROPPED FRACTURE INTERVAL ARE INDICATIVE OF HIGH NEAR-WELLBORE FLUID LEAKOFF/RETENTION.
- NEAR-WELLBORE PROPPANT PLACEMENT APPEARS TO HAVE BEEN LIMITED TO WITHIN CLOSE PROXIMITY OF THE PERFORATED INTERVAL.
- THE SPIKEY TRACER SIGNATURE, VERY LIMITED NEAR-WELLBORE PROPPED FRACTURE HEIGHT DEVELOPMENT AND HIGH CALCULATED FRAC GRADIENT ARE INDICATIVE OF SUBVERTICAL OR T-SHAPED FRACTURE DEVELOPMENT.

IDENTIFIED OPPORTUNITIES:

- () - HEIGHT > DESIGN
- () - UNSTIMULATED PERFS
- () - UNDERSTIMULATED PERFS
- () - PROPPANT MOVEMENT
- () - REFRAC CANDIDATE