

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- 091-228680000
County Johnson
C - NW - NW - NW Sec. 3 Twp. 15 Rge. 24 X E
W
4905 feet from SN (circle one) Line of Section
4722 feet from EW (circle one) Line of Section

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: McPherson Drilling

License: 5675

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)

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CONSERVATION DIVISION
Wichita, Kansas

DEC 3 - 1998

STATE CORPORATION COMMISSION RECEIVED

Footages Calculated from Nearest Outside Section Corner
NE, SE, NW or SW (circle one)
Lease Name Tobin Well # 4
Field Name Stillwell
Producing Formation N/A
Elevation: Ground KB
Total Depth 576' PBTD
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 572
feet depth to surface w/ 135 sx cmt.

If Workover:
Operator:

Well Name:

Comp. Date Old Total Depth

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBTD

Commingled Docket No.

Dual Completion Docket No.

Other (SWD or Inj?) Docket No.

8/8/98 8/12/98 Waiting on completion
Spud Date Date Reached TD Completion Date

Drilling Fluid Management Plan AH-2, 1-5-99 etc.
(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 Docket No.

DEC 01 1998

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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 A. Forward
Date Commission 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)

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

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ORIGINAL

SIDE TWO

Operator Name Osborn Energy, L.L.C. Lease Name Tobin Well # 4

Sec. 3 Twp. 15 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.) Samples Sent to Geological Survey Cores Taken Electric Log Run (Submit Copy.) List All E.Logs Run: Gamma Ray Neutron Log Formation (Top), Depth and Datums Sample Name Top Datum Drillers Log Attached

KCC DEC 01 1998 CONFIDENTIAL

Casing Record New Used Report all strings set-conductor, surface, intermediate, production, etc. Table with columns: 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

Table with columns: Purpose (Perforate, Protect Casing, Plug Back TD, Plug Off Zone), Depth (Top, Bottom), Type of Cement, #Sacks Used, and Percent Additives

RECEIVED STATE CORPORATION COMMISSION Wichita, Kansas DEC 3 - 1998 CONSERVATION DIVISION

Table with columns: 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

TUBING RECORD Size Set At Packer At Liner Run Yes No Date of First, Resumed Production, SWD or Inj. Producing Method N/A Flowing Pumping Gas Lift Other (Explain) Estimated Production Per 24 Hours Oil Bbl. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity

Disposition of Gas Vented Sold Used on Lease METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Production Interval Other (Specify) SIGW

ORIGINAL

S. 3 T 15 R. 24 E W

DRILLERS LOG

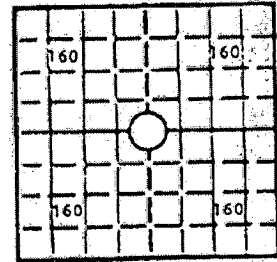
Loc. C-NW-NW-NW

API No. 15 - 091 - 22868
County Number

County Johnson

640 Acres

CONFIDENTIAL



Operator
Osborn Energy LLC.
Address
9401 Indian Creek Pkwy Ste 440
Well No. 4 Lease Name Tobin

Footage Location
feet from (N) (S) line feet from (E) (W) line

Principal Contractor
Mihpherson Drilling
Geologist
Rex Ashlock
Spud Date
8-8-98
Total Depth
576
P.B.T.D.
Date Completed
8-12-98
Oil Purchaser
KCC

Elev.: Gr. _____

DF _____ KB _____

CASING RECORD DEC 01 1998

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Report of all strings set—surface, intermediate, production, etc.

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs/ft.	Setting depth	Type cement	Sacks	Type and percent additives
SURFACE	1 1/4	8 5/8		21'	common	10	
PRODUCTION	7 7/8	5 1/2	14#	572'			

WELL LOG

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

Formation	Top	Btm.	Formation	Top	Btm.	Formation	Top	Btm.
Soil	0	2	gray shale	429	448	Black shale + coal	544	548
*	2	4	lime	448	451	gray shale	548	576
lime + shale	4	69	gray shale	451	452			
shale	69	92	black shale	452	453			
lime	92	100	gray shale	453	454			
gray shale	100	118	lime	454	456			
Red shale	118	121	gray shale	456	457			
lime	121	123	lime	457	460			
Red + Gray shale	123	134	Brown Black shale	460	461			
lime	134	138	gray shale	461	463			
gray shale	138	177	lime	463	468			
lime	177	178	gray shale	468	488			
Gray shale	178	189	lime	488	493			
lime	189	214	coal	493	496			
Black shale	214	217	gray shale	496	502			
Gray shale	217	224	lime	502	507			
Sand + lime	224	240	gray shale	507	519			
Black shale	240	245	Red shale	519	527			
Sand	245	246	dk gray shale	527	528			
gray shale	260	396	gray shale	528	530			
Black shale	396	399	coal	530	532			
gray shale	399	428	Black shale	532	533			
lime	428	429	gray shale	533	544			

RECEIVED
STATE CORPORATION COMMISSION
OCS - 1111
CONSERVATION DIVISION
Wichita Kansas

ORIGINAL

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

TICKET NUMBER 08236
LOCATION Ottawa, Ks.
FOREMAN Jim Green

CONFIDENTIAL
TREATMENT REPORT

PO # 097987

DATE	CUSTOMER ACCT #	WELL NAME	QTR/QTR	SECTION	TWP	RGE	COUNTY	FORMATION
8-12-98	6073	H 4 Tobin		3	15	24	30.	
CHARGE TO <u>Dobson Energy LLC</u>				OWNER				
MAILING ADDRESS <u>9041 Indian Creek Parkway</u>				OPERATOR <u>Rex Ashlock</u>				
CITY <u>Overland Park,</u>				CONTRACTOR <u>McPherson Drilling</u>				
STATE <u>Ks.</u> ZIP CODE <u>66210-2007</u>				DISTANCE TO LOCATION <u>40</u>				
TIME ARRIVED ON LOCATION <u>1:00 PM</u>				TIME LEFT LOCATION <u>3:00 PM</u>				

WELL DATA		TYPE OF TREATMENT	
HOLE SIZE	<u>2 7/8"</u>	<input type="checkbox"/>	SURFACE PIPE
TOTAL DEPTH	<u>576'</u>	<input type="checkbox"/>	ACID BREAKDOWN
CASING SIZE	<u>5 1/2"</u>	<input checked="" type="checkbox"/>	PRODUCTION CASING
CASING DEPTH	<u>572'</u>	<input type="checkbox"/>	SQUEEZE CEMENT
CASING WEIGHT		<input type="checkbox"/>	PLUG & ABANDON
CASING CONDITION		<input type="checkbox"/>	PLUG BACK
TUBING SIZE		<input type="checkbox"/>	MISC PUMP
TUBING DEPTH		<input type="checkbox"/>	OTHER
TUBING WEIGHT		<input type="checkbox"/>	ACID STIMULATION
TUBING CONDITION		<input type="checkbox"/>	ACID SPOTTING
PACKER DEPTH		<input type="checkbox"/>	FRAC
PERFORATIONS		<input type="checkbox"/>	FRAC + NITROGEN
SHOTS/FT.		<input type="checkbox"/>	FOAM FRAC
OPEN HOLE		<input type="checkbox"/>	NITROGEN
TREATMENT VIA			

KCC
DEC 0 1 1998
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STATE CORPORATION COMMISSION
Wichita, Kansas
DEC 5 1998

<input type="checkbox"/>	SURFACE PIPE	<input type="checkbox"/>	ACID BREAKDOWN
<input checked="" 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
<input type="checkbox"/>	PLUG BACK	<input type="checkbox"/>	FRAC + NITROGEN
<input type="checkbox"/>	MISC PUMP	<input type="checkbox"/>	FOAM FRAC
<input type="checkbox"/>	OTHER	<input type="checkbox"/>	NITROGEN

	PRESSURE LIMITATIONS	
	THEORITICAL	INSTRUCTED
SURFACE PIPE		
ANNULUS LONG STRING		
TUBING		

INSTRUCTIONS PRIOR TO JOB

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Establish circulation with H₂O, mix and pump 2 cu potassium chloride for flush displace with 10 bbls H₂O. Mix and pump 135 cu Class A cement with 2% gel, 2% calcium chloride, 2% F10-Seal 2% Gilscrete. Flush pump clear of cement. Pump 5 1/2" rubber plug to total depth of casing circulating cement to surface. Set float on casing. Check plug with wire line set at 572' staying there, shut well in.

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	

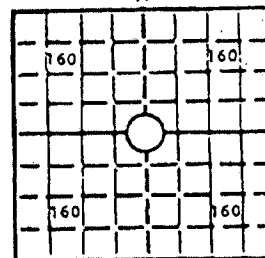
ORIGINAL T 15 R. 24 E
W

CONFIDENTIAL DRILLERS LOG

API No. 15 - 091 - 22868
County Number

Loc. C-NW-NW-NW
 County Johnson

640 Acres
N



Locate well correctly

Operator Osborn Energy LLC.
 Address 9401 Indian Creek PKwy Ste 440
 Well No. 4 Lease Name Tobin

Footage Location
feet from (N) (S) line feet from (E) (W) line

Principal Contractor Mulpherson Drilling Geologist Rex Ashlock
 Spud Date 8-8-98 Total Depth 576 P.B.T.O.
 Date Completed 8-12-98 Oil Purchaser KCC

Elev.: Gr. _____
 DF _____ KB _____

CASING RECORD DEC 01 1998

Report of all strings set—surface, intermediate, production, etc.

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Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs/ft.	Setting depth	Type cement	Sacks	Type and percent additives
SURFACE	12 1/4	8 5/8		21'	common	10	
PRODUCTION	7 3/8	5 1/2	14 #	572'			

WELL LOG

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

Formation	Top	Btm.	Formation	Top	Btm.	Formation	Top	Btm.
Soil	0	2	gray shale	429	448	Black shale + coal	544	548
*	2	4	lime	448	451	gray shale	548	576
lime + shale	4	69	gray shale	451	452			
shale	69	92	black shale	452	453			
lime	92	100	gray shale	453	454			
gray shale	100	118	lime	454	456			
Red shale	118	121	gray shale	456	457			
lime	121	123	lime	457	460			
Red + Gray shale	123	134	Brown + Black shale	460	461			
lime	134	138	gray shale	461	463			
gray shale	138	177	lime	463	468			
lime	177	178	gray shale	468	498			
Gray shale	178	189	lime	488	493			
lime	189	214	Coal	493	496			
Black shale	214	217	gray shale	496	502			
Gray shale	217	224	lime	502	507			
Sand + lime	224	240	gray shale	507	519			
Black shale	240	245	Red shale	519	527			
Sand	245	246	dk gray shale	527	528			
gray shale	260	396	gray shale	528	530			
Black shale	396	399	Coal	530	532			
gray shale	399	428	Black shale	532	533			
lime	428	429	gray shale	533	544			

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 CONSERVATION DIVISION
 Wichita, Kansas
 DEC 3 1998

12-1-00

Rel.
5-7-01
HAS BEEN
TECHNICAL

Osborn Energy, L.L.C.
40 Corporate Woods, suite 440
9401 Indian Creek Parkway
Overland Park, Ks. 66210-2007
Ph. 913-327-1831
Fax. 913-327-1832

December 1, 1998

CONFIDENTIAL

KCC

DEC 01 1998

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Kansas Corporation Commission
Conservation Division
Finney State Office Building
130 S. Market, Room 2078
Wichita, Ks. 67202


ATTN: Dave Williams

Dear Gentlemen,

Osborn Energy, L.L.C., a Kansas corporation having its principal place of business at:
40 Corporate Woods, suite 440
9401 Indian Creek Parkway
Overland Park, Ks. 66210-2007

is requesting that the Kansas Corporate Commission keep the information on the Well Completion Form (ACO-1) side two of Tobin 4, C NW NW NW sec. 3, T15S, R24E with API number 15-091-228680000, confidential for the maximum amount of time allowed, 24 months, which Osborn Energy deems confidential and proprietary information. Osborn Energy understands the Kansas Corporate Commission desires to obtain the confidential and proprietary information for the sole purpose of regulating the gas and oil industry.

Sincerely,


Darline Lott.
Osborn Energy, L.L.C.

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STATE CORPORATION COMMISSION
DEC 3 - 1998
CONSERVATION DIVISION
Wichita, Kansas

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

Operator: License # 32294

Name: Osborn Energy, L.L.C.

Address 24850 Farley

City/State/Zip Bucyrus, Kansas 66013

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

Operator Contact Person: Steve Allee

Phone (913) 533-9900

Contractor Name: McPherson Drilling

License: 5675

Wellsite Geologist: Rex Ashlock

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SIOV Abd.

Gas ENHR SIGV

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

If Workover:

Operator: MAR 01 2000

Well Name: CONSERVATION DIVISION

Comp. Date WICHITA, KS Old Total Depth WICHITA, KS

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBT

Commingled Docket No.

Dual Completion Docket No.

Other (SWD or Inj?) Docket No.

8/8/98 8/12/98 * 11/8/99 (D&A)

Spud Date Date Reached TD Completion Date

API NO. 15- 15-091-22868-0000

County Miami

C - NW - NW - NW Sec. 3 Twp. 15 Rge. 24 E W

4905 Feet from (S)N (circle one) Line of Section

4722 Feet from (E)W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, (SE) NW or SW (circle one)

Lease Name Tobin Well # 43

Field Name Stilwell

Producing Formation N/A

Elevation: Ground KB N/A

Total Depth 576' PBT N/A

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 N/A

feet depth to N/A w/ N/A sx cmt.

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 Docket No.

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

Title Geologist Date 2-28-00

Subscribed and sworn to before me this 28 day of February, 1900.

Notary Public Kerry A. Soares

Date Commission Expires 10-25-03

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

KERRY A. SOARES
Notary Public - State of Kansas
My Appt. Expires 10-25-03

County of Johnson

SIDE TWO

Operator Name Osborn Energy, L.L.C. Lease Name Tobin Well # 4

Sec. 3 Twp. 15 Rge. 24 East West
 County Miami

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 <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

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
* 4	494.0' - 496.0'		

TUBING RECORD		Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SMD or Inj.		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 Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
N/A	N/A	N/A	N/A	N/A	N/A

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

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) * D & A

Production Interval: _____

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

TICKET NUMBER **08018**

LOCATION Dttung

FOREMAN Alan Mader

P.O. # 117089

TREATMENT REPORT

DATE	CUSTOMER ACCT #	WELL NAME	QTR/QTR	SECTION	TWP	RGE	COUNTY	FORMATION
11-8-99	6073	Tobin-H		3	15	24	To	
CHARGE TO				OWNER				
MAILING ADDRESS				OPERATOR				
CITY				CONTRACTOR				
STATE				DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION				TIME LEFT LOCATION				

WELL DATA	
HOLE SIZE	X
TOTAL DEPTH	
CASING SIZE	5 1/2
CASING DEPTH	perfs at 494
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 type="checkbox"/> PRODUCTION CASING	<input type="checkbox"/> ACID STIMULATION
<input type="checkbox"/> SQUEEZE CEMENT	<input type="checkbox"/> ACID SPOTTING
<input checked="" type="checkbox"/> PLUG & ABANDON	<input type="checkbox"/> FRAC
<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> FRAC + NITROGEN
<input type="checkbox"/> MISC PUMP	<input type="checkbox"/> FOAM FRAC
<input type="checkbox"/> OTHER	<input type="checkbox"/> NITROGEN

PRESSURE LIMITATIONS		
	THEORETICAL	INSTRUCTED
SURFACE PIPE	RECEIVED	
ANNULUS LONG STRING		
TUBING	KANSAS CORPORATION COMMISSION	

MAR 01 2000

INSTRUCTIONS PRIOR TO JOB

CONSERVATION DIVISION
 WICHITA, KS

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Established an injection rate. Mixed + pumped 61sx, 50/50 per, 6 1/2 gel + 12 sx cotton seed hulls down casing. Well pressured up to 700#, flushed + closed valve.

61 sx total

Alan Mader

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 _____

LOG-TECH, INC.

1011 240th Ave.

HAYS, KANSAS 67601

(785) 625-3858

5814

Date: 8/28/1998

CHARGE TO: Osborn Energy, L.L.C.

ADDRESS: _____

R/A SOURCE NO. 21-2A-33 CUSTOMER ORDER NO. 96208

LEASE AND WELL NO. Tobin No. 4 FIELD _____

NEAREST TOWN Stillwell COUNTY Johnson STATE KS

SPOT LOCATION _____ SEC. 3 TWP. 15c RANGE 24e

ZERO Ground Level CASING SIZE 5 1/2" @ 572' WEIGHT _____

CUSTOMER'S T.D. 576' LOG TECH 570 FLUID LEVEL Full

ENGINEER B. Prylie, R. Taylor OPERATOR _____

PERFORATING				
Description	No. Shots	From Depth	To Depth	Amount
Perforate w/4" HSC	8	494	496	650.00

DEPTH AND OPERATIONS CHARGES					
Description	From Depth	To Depth	Total No. Ft.	Price Per Ft.	Amount
Sonic Cement Bond Log	0	570	570	min	560.00
Logging Charge	570	0	570	min	395.00
Gamma Ray / Compensated Neutron Log	0	570	570	min	560.00
Logging Charge	570	0	570	min	395.00

MISCELLANEOUS			
Description	Quantity	Price	Amount
Service Charge Truck Rental			450.00

PRICES SUBJECT TO CORRECTION BY BILLING DEPARTMENT

RECEIVED THE ABOVE SERVICES ACCORDING TO THE TERMS AND CONDITIONS SPECIFIED ON THE REVERSE SIDE TO WHICH WE HEREBY AGREE.

R. P. Taylor
Customer Signature

8/28/98
Date

Sub Total	3010.00
Less Discount if Paid Within 30 Days	1585.00
Total	1425.00