FORM MUST BE TYPED

SIDE ONE

ORIGINAL

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

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: R.S. Glaze Drilling Co.

License: 5885

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 ____ PBTD

____ Commingled Docket No. ____

____ Dual Completion Docket No. ____

____ Other (SWD or Inj?) Docket No. ____

4/16/98 Spud Date | 4/20/98 Date Reached TD | 6/13/98 Completion Date

API NO. 15- 091-228480000

County Johnson

90'N&40'E of SW-SW-NW Sec. 35 Twp. 14 Rge. 24 x E / W

3060 feet from (S)/N (circle one) Line of Section

370 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 Stuart Well # 1

Field Name Stillwell

Producing Formation N/A

Elevation: Ground 993' KB ____

Total Depth 1260' PBTD ____

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 1085'

feet depth to surface w/ 142 sx cmt.

Drilling Fluid Management Plan AH.2, 11-18-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content NA ppm Fluid volume 60 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 10-20-98

Subscribed and sworn to before me this 20th day of October, 19 98.

Notary Public Susan L Forward

Date Commission Expires 4-1002

SUSAN L. FORWARD
Notary Public
State of Kansas
My Appt. Expires 4-1002

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)

Form ACO-1 (7-91)

Rec'd 10-23-98

ORIGINAL

SIDE TWO

Operator Name Osborn Energy, L.L.C. Lease Name Stuart Well # 1

Sec. 35 Twp. 14 Rge. 24 ☒ East ☐ West County Johnson

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.)	☐ Yes	☒ No	☒ Log	☐ Sample
Samples Sent to Geological Survey	☐ Yes	☒ No	Name	Top / Datum
Cores Taken	☐ Yes	☒ No	Drillers Log Attached	
Electric Log Run (Submit Copy.)	☒ Yes	☐ No		
List All E.Logs Run: Dual Induction and Neutron/Density Porosity Log				

Formation (Top), Depth and Datums

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
Surface	10 ¾"	8 5/8"	24.0	20'	Portland	5	None
Production	6 ¾"	4 ½"	9.0	1085'	50/50 Poz	142	3% gilsonte, 2% gel 1% flo-seal

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top	Depth Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
____ Perforate					
____ Protect Casing					
____ Plug Back TD					
____ 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
	Waiting Completion		

TUBING RECORD Size Set At Packer At Liner Run Yes ☐ No ☒

Date of First, Resumed Production, SWD or Inj.	Producing Method
N/A	N/A ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
	N/A Bbl.	SIGW Mcf	N/A Bbls.		

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

METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled

Production Interval

Other (Specify) SIGW

ORIGINAL

15-091-22848

16

PO# 191226

NAME: Jim Osborn

SHIP TO: R.S. Glaze Drlg Co.

STREET & NO.: 22139 S. Victory Rd.

CITY: 1-35

CITY: Spring Hill Ks. 66083

ORDER NO.: Stewart P.O. # 189945

WHEN SHIP: Charged to

DATE: 5-8

1260'	ft of drlg @ 6.50 per ft.	8190
1085'	2-7/8 U. prod. pipe @ 3.60 per ft.	3906 w
15	Hrs Rigtime, setting surface, Cleaning out for Logtech Running prod. pipe @ 125.00 per hr.	1875
	Surface casing	135 w
5 sx	Cement for surface	35

total Amt Due $ 14,141 00

Thanks, Duane

Well	4041.00
IDC	10100.00

PAID
CHECK NO. 2247
AMOUNT 3,832.50
DATE 5/13/98

REDIFORM
5L540

FILE COPY

ORIGINAL

15-091-22848

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

TICKET NUMBER 08151

LOCATION Ottawa

FOREMAN Alan Mader

TREATMENT REPORT

DATE	CUSTOMER ACCT #	WELL NAME	QTR/QTR	SECTION	TWP	RGE	COUNTY	FORMATION
4-21-98	6073	Stuart # 1		35	14	24	Jo	

CHARGE TO Osborne Energy L.L.C	OWNER
MAILING ADDRESS 9401 Indian Creek Parkway 40 Corporate Woods Ste 440	OPERATOR
CITY Overland Park	CONTRACTOR Glaze Drilling
STATE Ks ZIP CODE 66210	DISTANCE TO LOCATION 40
TIME ARRIVED ON LOCATION 1:30	TIME LEFT LOCATION 3:30

WELL DATA

HOLE SIZE	6 3/4
TOTAL DEPTH	1260'
CASING SIZE	4 1/2
CASING DEPTH	1085'
CASING WEIGHT	
CASING CONDITION	TYPE "A" packer shoe
TUBING SIZE	
TUBING DEPTH	
TUBING WEIGHT	
TUBING CONDITION	
PACKER DEPTH	
PERFORATIONS	
SHOTS/FT	
OPEN HOLE	
TREATMENT VIA	

TYPE OF TREATMENT

[ ] SURFACE PIPE	[ ] ACID BREAKDOWN
[X] PRODUCTION CASING	[ ] ACID STIMULATION
[ ] SQUEEZE CEMENT	[ ] ACID SPOTTING
[ ] PLUG & ABANDON	[ ] FRAC
[ ] PLUG BACK	[ ] FRAC + NITROGEN
[ ] MISC PUMP	[ ] FOAM FRAC
[ ] OTHER	[ ] NITROGEN

PRESSURE LIMITATIONS

	THEORITICAL	INSTRUCTED
SURFACE PIPE		
ANNULUS LONG STRING		
TUBING		

INSTRUCTIONS PRIOR TO JOB

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Circulated with pit mud until packer set at 1200 lbs. Pumped app 5 bbls clean water followed by 2 sx premium gel. Mixed & pumped 12 bbls of dye followed by 142 sx 50/50 poz, 3% gilsonite, 2% gel, 1% flo-seal. Circulated dye to surface. Pumped 4 1/2 rubber plug to bottom, circulating cement to surface. Set float.

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

ORIGINAL

15-091-22848

WELL DRILLERS LOGGING REPORT

THICKNESS	FORMATION	TOTAL DEPTH	COMMENTS
20	Surface	20	
18	Lime	38	
26	Shale	64	
9	Lime	73	
14	Shale	87	SANDY
3	Red Bed	90	
2	Shale	92	
1	Red Bed	93	
11	Shale	104	
5	Lime	109	
40	Shale	149	
2	Lime	151	Damp
10	Shale	161	
3	Lime	164	
1	Shale	165	
20	Lime	185	
1	Shale	186	
1	Blk Slate	187	Ø gas (tested)
7	Shale	194	
20	Lime	214	
1	Shale	215	
1	Blk Slate	216	Ø gas (tested)
1	Shale	217	
18	Lime	235	Hertha
110	Shale	345	
8	Sand	353	Ø gas (tested)
17	Shale	370	
5	Red Bed	375	
35	Shale	410	
4	Red Bed	414	
5	Shale	419	
5	Lime	424	
5	Shale	429	
1	Blk Slate	430	Ø gas (tested)
5	Shale	435	
7	Lime	442	
3	Shale	445	
5	Sand	450	

Stewart #1

ORIGINAL

15-091-22848

WELL DRILLERS LOGGING REPORT

THICKNESS	FORMATION	TOTAL DEPTH	COMMENTS
14	Shale	464	
2	Blk Slate	466	
12	Shale	478	
1	Lime	479	
2	Shale	481	
4	Lime	485	
3	Shale	488	
5	Red Bed	493	
14	Shale	507	
1	Blk Slate	508	tested 0 gas
28	Shale	536	
4	Sand	540	tested 0 gas
72	Shale	612	
1	Coal	613	
37	Shale	650	
2	Blk Slate	652	
43	Shale	695	
1	Coal	696	
19	Shale	715	
10	Shale (Sandy)	725	
5	Sand	730	
20	Shale	750	
10	Shale (Sandy)	760	
17	Shale	777	
5	Sand	782	White-water
70	Shale	852	
7	Sand	860	
35	Shale	895	
5	Lime	900	
15	Sandy Lime	915	
100	Lime	1015	
2	Lime *SOFT	1017	Soft - break - WATER
98	Lime	1115	
8	Shale	1123	
80	Lime	1203	
7	Lime Soft	1210	
50	Lime	1260	T.D. 1260'

PAGE #2

Stewart #1