FORM MUST BE TYPED

SIDE ONE

15-007-21148-0001

COPY

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

API NO. 15- 007-21-148-0001

County Barber

C - N/2N/2-NE Sec. 31 Twp. 31S Rge. 11 x E W

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

1320 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 Swartz Well # 1

Field Name Whelan (Shawnee)

Producing Formation Elgin

Elevation: Ground 1512' KB 1526'

Total Depth 4731' PBTD 3500'

Amount of Surface Pipe Set and Cemented at 375 Feet

Multiple Stage Cementing Collar Used? ____ Yes x No

If yes, show depth set ____ Feet

If Alternate II completion, cement circulated from ____

feet depth to ____ w/ ____ sx cmt.

Operator: License # 31645

Name: JHS Energy, Inc.

Address 1720 S. Bellaire Street
Suite 1209

City/State/Zip Denver, CO 80222

Purchaser: Peoples Natural Gas Company

Operator Contact Person: Dennis M. Flyr

Phone (303) 757-8811

Contractor: Name: NA

License: NA

site Geologist: NA

Designate Type of Completion
____ New Well ____ Re-Entry x Workover

____ Oil ____ SWD ____ SIOW ____ Temp. Abd.
x Gas ____ ENHR ____ SIGW
____ Dry ____ Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: JHS Energy, Inc.

Well Name: Swartz #1

Comp. Date 6/26/99 Old Total Depth 4731'

____ Deepening X Re-perf. ____ Conv. to Inj/SWD
x Plug Back 3500' PBTD
____ Commingled Docket No. ____
____ Dual Completion Docket No. ____
____ Other (SWD or Inj?) Docket No. ____

4/11/81 Spud Date
4-11-1981

4/23/81 Date Reached TD

6/5/81 Completion Date
Original

Drilling Fluid Management Plan Re-work, 8-4-99 V.C.
(Data must be collected from the Reserve Pit)

NA
Chloride content ____ ppm Fluid volume ____ bbls

Dewatering method used ____

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. le 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 Dennis M. Flyr

Title Acquisitions Manager Date 7/14/99

Subscribed and sworn to before me this 14th day of July, 1999.

Notary Public Lynn M Rice

Date Commission Expires ____

LYNN M RICE
NOTARY PUBLIC
STATE OF COLORADO
My Commission Expires Apr. 7, 2003

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)
KS

Form ACO-1 (7-91)

COPY

SIDE TWO

Operator Name JHS Energy, Inc. Lease Name Swartz Well # _____

☐ East
Sec. 31 Twp. 31N Rge. 11 ☒ West

County Barber

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

Samples Sent to Geological Survey ☐ Yes ☐ No ?

Cores Taken ☐ Yes ☒ No

Electric Log Run (Submit Copy.) ☒ Yes ☐ No

List All E.Logs Run:

DILL,CNL-FDC-GR
Proximity- Microlog

☒ Log Formation (Top), Depth and Datums ☐ Sample

Name	Top	Datum
Elgin Sand	3326	-1800
Douglas Sand	3560	-2034
Lansing-KC	3698	-2169
Mississippian	4280	-2754
Kinderhook Shale	4420	-2894
Viola Lime	4483	-2954
Arbuckle	4661	-3135

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	?	8 5/8	20	375	Common	250	3% CaCl
Production	7 7/8	5 1/2	14	4728	50/50 Poz	355	2% Gel
							18% Salt

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top	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
	(See Attached Detail)		
4	3568-71-72	250 gal 7½% FE Acid	

TUBING RECORD	Size	Set At	Packer At	Liner Run
Current	2 3/8	3332	-	☐ Yes ☒ No

Date of First, Resumed Production, ~~SWD or INJ.~~ 6/82 6/30/99

Producing Method ☒ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
Orig.	0	196	0	-	-

Disposition of Gas: METHOD OF COMPLETION Production Interval

☐ Vented ☒ Sold ☐ Used on Lease (If vented, submit ACO-18.)

☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled _____

☐ Other (Specify) _____

ORIGINAL

Addendum to Form ACO-1
Dated July 14, 1999

JHS Energy, Inc.
Swartz No.1
C N/2 N/2 NE Sec. 31, T31S-R11W
Barber County, KS

COMPLETION HISTORY

(With Eagle Explorations Inc. As Operator)

5/23/81-6/10/81 Perforated 4386-93 w/2 spf & acidized w/ 200 gal. 15% MCA acid. Swabbed average .2 BW/hr. Set CIBP @ 4370 ft.
Perforated 4282-90 & 4281-89 w/2 spf & acidized w/ 500 gal. 15% MCA acid. Swabbed average .4 BW/hr. Sect CIBP @ 4250 ft.
Perforated 3939-44 & 3937-42 w/2 spf . No stimulation. Swabbed 5 BW/hr. Set CIBP @ 3880 ft.
Perforated Elgin 3332-37 w/ 2spf. Flow tested well at average 196 MCF/Day @ FTP = 170 psi. Waiting on pipeline connection.

(With JHS Energy, Inc. As Operator)

6/21/99-6/30/99 Blew well down to kill. POH w/ tubing & RIH w/tubing and packer & set at 3994'. Perforated Douglas Sand @ 3568-71' w/ 4spf with tubing gun. Acidized w/ 250 gal. 7 ½% FE acid. Swabbed hole dry. POH w/ tubing. Re-perforated 3568-71' w/4 spf with 24 gram shot casing gun. RIH w/ tubing & packer & acidized w/ 250 gal. 7 ½% FE acid. Swabbed hole down, recovered 1.33 BW and spent acid per hour w/ show of gas. POH w/ tubing. Perforated 3568-72' w/ 4 spf with 39 gram shot tubing gun & acidized with 250 gal. 7 ½% FE acid. Swabbed 2.66 BW/hour with show of gas. POH w/ tubing. Set CIBP @ 3500'. Acidized existing Elgin perforations @ 3332-37' with 500 gal. 7 ½% CCA-FE acid. Swabbed back load. Returned well to production at est. 150 MCF & 9 BW per day.

ORIGINAL

EAGLE EXPLORATIONS, INC.
SUITE 300-107 N. MARKET
WICHITA, KANSAS 67202
316-265-2897

WELL DATA

WELL NAME:	EAGLE SWARTZ #1
LOCATION:	C N/2-N/2-NE SEC.31, TWP.31S, RGE.11W BARBER COUNTY, KANSAS
CO-ORDINATES:	1320' FEL 330' FNL NE/4-31
ELEVATIONS:	GROUND: 1512' K.B. 1526'
TOTAL DEPTH:	4731' DRILLER 4737' LOGGER
P.B.T.D.	4684.70' (Float collar, 4683' Logger)
SURFACE CASING:	8 5/8" O.D., 20#/ft., H-40 set at 375.17' K.B. Cemented with 250 Sax common cement + 3% $CaCl_2$. Cement top estimated at 10' below ground level.
PRODUCTION CASING:	5½" O.D., 14#/ft., J-55, ERW set at 4728' K.B. Cemented with 355 Sax 50/50 Pozmix + 2% Gel + 18% Salt + 0.75% CFR_2 with 12#/sack gilsonite. Good returns throughout.
D.S.T. SUMMARY:	1. ELGIN: 3323'-3340' 30/60/60/120

ISIP: 607 IFP: 178 FFP: 226
FSIP: 597 IHP: 1552 FHP: 1552

Preflow: Strong air blow. Gas to surface in 4 mins. at 317 Mcf/d increasing to 534 Mcf/d at end of the preflow period.

V.O.: Gas to surface immediately at 662 Mcf/d increasing to a stable flow at 708 Mcf/d in 10 mins.

Recovery: 150 ft. watery mud (few oil specks)
180 ft. water (few oil specks)

2. DOUGLAS: 3497-3517 30/60/60/120

ISIP: 669 IFP: 68 FFP: 98
FSIP: 1224 IHP: 1647 FHP: 1620

ORIGINAL

D.S.T. SUMMARY:

2. DOUGLAS:

Preflow: Strong air blow throughout. No gas to surface.

V.O.: Strong air blow. Gas to surface in 55 mins. too small to measure.

Recovery: 220' of watery mud.

3. MISSISSIPPIAN: 4268'-4298' 30/60/60/120

I.S.I.P.	102.9	IFP:	52.9	FFP:	50.0
F.S.I.P.	100	IHP:	2037.4	FHP:	1785.3

Preflow: Weak air blow
V.O.: Dead
Recovery: 5' of drilling mud.

JHS ENERGY, INCORPORATED
Oil and Gas Investments & Operations
1720 S. Bellaire Street, Suite 1209
Denver, CO 80222
(303) 757-8811
Fax: (303) 758-9264

July 14, 1999

Kansas Corporation Commission
130 S. Market
Room 2078
Wichita, Kansas 67202

Re: Form ACO-1
Swartz #1
C N/2 N/2 NE Sec. 31, T31N-R11W
Barber County, Kansas

Dear Sirs,

Please find enclosed Form ACO-1 for the above well. This well was originally completed in 1981 in the Elgin sand and has produced gas from that interval since that time. Recently, JHS unsuccessfully attempted to recomplete in the Douglas sand. Commercial production was not established and therefore, a cast iron bridge plug was set above the Douglas perforations and the Elgin was returned to production.

I have been advised by your office that an ACO-1 had never been filed by the original operator upon initial completion of this well. JHS acquired the well in March, 1995 and has in its possession some, but not all, of the well records. Therefore, and at the request of your office, the ACO-1 now being submitted includes the original well completion data as available as well as the results of the recent workover. Please advise if I can be of further assistance.

Yours truly,

Dennis M. Flyr

Dennis M. Flyr, P.E.
Acquisitions Manager