

SIDE ONE

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

Operator: License # 5565

Name: NATIONAL COOP. REFINERY ASSOC 4620

Address 6000 W. 10th

City/State/Zip Great Bend, Ks 67530

Purchaser: _____

Operator Contact Person: Steve Brackeen

Phone 316) 793-7824

Contractor: Name: ALLEN DRILLING COMPANY

License: 5418

Wellsite Geologist: JACK SEARLE (RAMAS INC.)

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd.

Gas Inj Delayed Comp.

Dry Other (Core, Water Supply, etc.)

If OAWO: old well info as follows:

Operator: N/A

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

1/30/90 2/06/90 3-6-90

Spud Date Date Reached TD Completion Date

API NO. 15- 135-23,426-00-00

County Ness

C NW SW Sec. 24 Twp. 18 Rge. 25 East West

1980 Ft. North from Southeast Corner of Section

4620 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

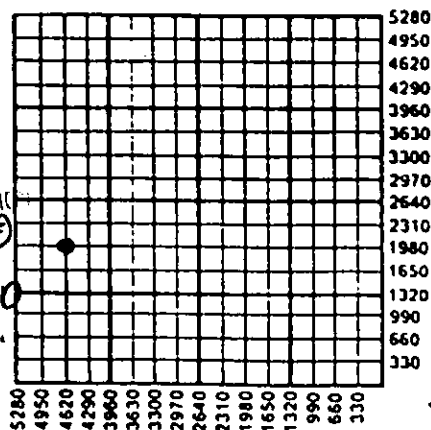
Lease Name ANSPAUGH Well # 1

Field Name Small Field

Producing Formation Mississippian

Elevation: Ground 2410' KB 2415'

Total Depth 4506' PBTD 4467'



Amount of Surface Pipe Set and Cemented at 356 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 1727 Feet

If Alternate II completion, cement circulated from 1727

feet depth to 0 w/ 275 sx cmt.

Handwritten notes: 3 1990, 04-13-1990, CONSERVATION DISTRICT, Wichita, Kansas

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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.

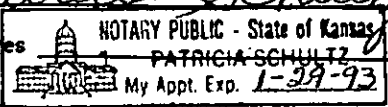
Signature Steve Brackeen

Title District Foreman Date 4/10/90

Subscribed and sworn to before me this 10th day of April 19 90.

Notary Public Patricia Schultz

Date Commission Expires _____



K.C.C. OFFICE USE ONLY

Letter of Confidentiality Attached

Wireline Log Received

Drillers Timelog Received

✓ Distribution

KCC SWD/Rep NGPA

KGS Plug Other (Specify)

SIDE TWO

Operator Name NATIONAL COOP. REFINERY ASSO Base Name ANSPAUGH Well # 1
 Sec. 24 Twp. 18 Rge. 25 East West
 County NESS

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 Yes No
 (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy.)

Formation Description
 Log Sample
 Name Top Bottom

SEE ATTACHMENTS

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	12-1/4"	8-5/8"	24	356	60/40 poz	240	2% gel, 3% cc
Production	7-7/8"	5-1/2"	15.5	4505	Class A HOWCO LITE 60/40 Poz.	150 250 25	1st stage 2nd stage

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	
Shots Per Foot	Specify Footage of Each Interval Perforated	Depth	
4	4408-12'		
4	4414-18'		

TUBING RECORD Size 2 7/8" Set At 4385' Packer At _____ Liner Run Yes No

Date of First Production 3-6-90 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	<u>52.96</u>		<u>9.34</u>		

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

METHOD OF COMPLETION

Open Hole Perforation Dually Completed Commingled
 Other (Specify) _____

Production Interval _____

NCRA
Anspaugh No. 1
NW/4SW/4 Section 24-T18S-R25W
Ness County, Kansas

<u>FORMATION TOPS: (LOG)</u>	<u>NAME</u>	<u>DEPTH</u>	<u>DATUM</u>
	Anhydrite	1698'	(+ 717')
	Heebner	3781'	(-1366')
	Lansing	3823'	(-1408')
	Base of Kansas City	4128'	(-1713')
	Marmaton	4165'	(-1750')
	Pawnee	4248'	(-1833')
	Fort Scott	4319'	(-1904')
	Cherokee Shale	4342'	(-1927')
	Mississippian LM	4406'	(-1991')
	Mississippian Dolomite	4407'	(-1992')

STATE OF KANSAS
RECORDS & COURTS COMMISSION

APR 11 1990

COMMERCIAL RECORDS

NCRA
Anspaugh No. 1
NW/4SW/4 Section 24-T18S-R25W
Ness County, Kansas

DST NO. 1 - MISSISSIPPIAN WARSAW - 4366'-4417'

Interval corrected to E-Logs: 4362'-4413'

Testing Company: Western Testing Co.
Testers Name: Norman Hickel
Type of Test: Conventional

IO: 5 minutes - opened with no blow.
Built to $\frac{1}{4}$ " in 5 minutes.

ISI: 30 minutes - blow died immediately.

FO: 20 minutes - opened with surface blow.
Blow died in 12 minutes.

FSI: 40 minutes - no blow.

PRESSURES:

IHP: 2234
IF: 61-61 in 5 minutes
ISIP: 709 in 30 minutes
FF: 71-71 in 20 minutes
FSIP: 306 in 40 minutes
FHP: 2133

BOTTOM HOLE TEMPERATURE: 117° F.

RECOVERY:

Pipe: 20' of oil cut mud (5% oil, 95% mud).
Rw: No water recovery.

Sample Chamber: 1700 cc's fluid at 8 PSI.
87.5 cc's oil, 1662.5 cc's mud.
Rw: No water recovery.

Rw pit mud: .95 at 68° F, 2,000 ppm Cl.

STAMPED

APR 11 1990

COPIES MADE
V. L. HICKEL

NCRA
Anspaugh No. 1
NW/4SW/4 Section 24-T18S-R25W
Ness County, Kansas

DST NO. 2 - MISSISSIPPIAN WARSAW - 4360'-4427'

Interval corrected to E-Log: 4360'-4427'.

Testing Company: Western Testing
Testers Name: Norman Hickel
Type of Test: Conventional

IO: 5 minutes - opened with good blow.
Bottom of bucket in 3 minutes.

ISI: 30 minutes - blow died after purging.

FO: 30 minutes - opened with strong blow.
Bottom of bucket in 3 minutes.

FSI: 60 minutes - blow died after purging.

PRESSURES:

IHP: 2255
IF: 204-212 in 5 minutes
ISIP: 1315 in 30 minutes
FF: 285-438 in 30 minutes
FSIP: 1206 in 60 minutes
FHP: 2214

BOTTOM HOLE TEMPERATURE: 123° F.

RECOVERY:

Pipe: 120' gas in pipe, 30' oil cut mud
(2% oil), 200' oil cut mud (15% oil),
750' of clean oil.

Sample Chamber: 1045 cc's fluid at 64 PSI.
1045 cc's oil and 6.3
cubic feet of gas. Bottom
hole temperature at 120°.
Rw: No water.

Rw pit mud: .95 at 68° F, 2,000 ppm Cl.

APR 11 1990

ORIGINAL



REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046

HALLIBURTON SERVICES

INVOICE

A Halliburton Company

INVOICE NO.	DATE
914031	02/07/1990

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION	STATE	WELL/PLANT OWNER	
ANSIPAUGH 1		NESS	KS	SAME	
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
GREAT BEND		ALLEN DRILLING CO	ACIDIZE FORMATION ?		02/07/1990
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
622920	STEVE BRACKEEN			COMPANY TRUCK	90165

TRANSMITTED TO

NATIONAL COOPERATIVE
REFINERY ASSOCIATION
6000 W. 10TH
GREAT BEND, KS 67530

FEB 20 1990

DATA PROCESSING

DIRECT CORRESPONDENCE TO:
SUITE 600
COLORADO DERBY BUILDING
WICHITA, KS 67202-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	PRICING AREA - MID CONTINENT MILEAGE	11	MI	2.20	24.20
		1	UNT		
007-013	MULT STAGE CEMENTING-1ST STAGE	4505	FT	1,111.00	1,111.00
001-016		1	UNT		
007-161	MULT STAGE CEMENTING-ADD STAGE	1	STG	865.00	865.00
		1	UNT		
000-117	MILEAGE ON BATCH MIXER	240	MI	2.20	528.00
		1	UNT		
005-017	BATCH MIXER UNIT			865.00	865.00
		8	HR	PER 8 HR	
		1	UNT		
12A	GUIDE SHOE - 5 1/2" 8RD THD.	1	EA	104.00	104.00
825.205					
4A	FLOAT COLLAR 5-1/2" 8RD SS II	1	EA	253.00	253.00
836.06900					
40	CENTRALIZER 5-1/2" MODEL S-4	7	EA	44.00	308.00
807.93022					
320	CEMENT BASKET 5 1/2"	2	EA	90.00	180.00
800.8883					
71	MULT STAGE CEMENTER 5-1/2" 8RD	1	EA	2,900.00	2,900.00
813.80400					
66	FASGRIP LIMIT CLAMP 5 1/2"	1	EA	11.30	11.30
807.64031					
75	PLUG SET 5 1/2"	1	EA	400.00	400.00
812.0162					
019-241	CASING SWIVEL W/O WALL CLEANER	1	JOB	155.00	155.00
090-167	TEMPERATURE SURVEY	1	RUN	255.00	255.00
504-308	STANDARD CEMENT	150	SK	5.35	802.50
504-316	HALLIBURTON LIGHT W/STANDARD	250	SK	4.82	1,205.00
506-105	POZMIX A	100	SK	2.79	279.00
504-308	STANDARD CEMENT	90	SK	5.35	481.50
506-105	POZMIX A	60	SK	2.79	167.40

***** CONTINUED ON NEXT PAGE *****

TERMS INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND

ORIGINAL



REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046

INVOICE

HALLIBURTON SERVICES

A Halliburton Company

INVOICE NO.	DATE
914031	02/07/1990

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION	STATE	WELL/PLANT OWNER	
ANSPAUGH 1		NESS	KS	SAME	
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
GREAT BEND		ALLEN DRILLING CO	ACIDIZE FORMATION		02/07/1990
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
622920	STEVE BRACKEEN			COMPANY TRUCK	90165

NATIONAL COOPERATIVE
REFINERY ASSOCIATION
6000 W. 10TH
GREAT BEND, KS 67530

DIRECT CORRESPONDENCE TO:
SUITE 600
COLORADO DERBY BUILDING
WICHITA, KS 67202-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
506-121	HALLIBURTON-GEL 2X	3	SK	.00	N/C
509-968	SALT BLENDED	700	LB	.052	36.40
508-291	GILSONITE	1500	LB	.35	525.00
507-153	CFR-3	65	LB	3.90	253.50
507-210	FLOCELE	100	LB	1.23	123.00
507-918	GASSTOP	57	LB	29.00	1,653.00
500-207	BULK SERVICE CHARGE	690	CFT	.95	655.50
500-306	MILEAGE CMTG MAT DEL OR RETURN	360.78	TMI	.70	252.55
INVOICE SUBTOTAL					14,393.85
DISCOUNT-(BID)					2,600.17-
INVOICE BID AMOUNT					11,793.68
*-KANSAS STATE SALES TAX					358.85
*-BARTON COUNTY SALES TAX					84.41
Checked by _____					
Date _____					
Approved as to customer account operating or drilling logging only.					
<i>Steve Brackeen</i>					
Production Department					
APPROVED BY STEVE BRACKEEN <i>SB</i>					
DATE 2-12-90					
AFE # 1-0-126					
INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====>					\$12,236.94

TERMS INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED. CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT. CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT.

ORIGINAL



REMIT TO: P.O. BOX 951046 DALLAS, TX 75395-1046

INVOICE

HALLIBURTON SERVICES

A Halliburton Company

INVOICE NO.	DATE
908635	01/20/199

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
ANSFAUGH 1		NESS		KS	SAME	
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE		TICKET DATE
NESS CITY		ALLEN DRLG.		CEMENT SURFACE CASING .		01/20/1990
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.	
622920	STEVE BRACKEEN	TRANSMITTED TO		COMPANY TRUCK	89814	

NATIONAL COOPERATIVE REFINERY ASSOCIATION 6000 W. 10TH GREAT BEND, KS 67530

FEB 19 1990 DATA PROCESSING

DIRECT CORRESPONDENCE TO: SUITE 500 COLORADO DERBY BUILDING WICHITA, KS 67202-0000

PRICE REF NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	PRICING AREA - MID CONTINENT MILEAGE	12	MI	2.20	26.40
001-016	CEMENTING CASING	356	FT	417.40	417.40
030-503	CMTG PLUG LA-11,CP-1,CP-3, TOP	8 5/8	IN	59.00	59.00
24A	INSERT FLOAT VALVE - 8 5/8" 8RD	1	EA	171.00	171.00
815.19502		1	EA	29.00	29.00
27	FILL-UP UNIT 7"- 8 5/8"	1	EA	29.00	29.00
815.19419					
504-308	STANDARD CEMENT	144	SK	5.45	784.80
506-105	POZMIX A	96	SK	2.88	276.48
506-121	HALLIBURTON-GEL 2%	4	SK	.00	N/C
509-406	ANHYDROUS CALCIUM CHLORIDE	6	SK	26.25	157.50
500-207	BULK SERVICE CHARGE	252	CFT	.95	239.40
500-306	MILEAGE CMTG MAT DEL OR RETURN	129.120	TMI	.70	90.38
INVOICE SUBTOTAL					2,251.36
DISCOUNT - (BID)					460.26-
INVOICE BID AMOUNT					1,791.10
*- KANSAS STATE SALES TAX					59.02
Checked by _____					
Date _____					
Approved as to current month operating or drilling invoicing only.					
<i>Morris Bell</i> Production Department					
APPROVED BY STEVE BRACKEEN <i>SB</i>					
DATE <i>2-5-90</i>					
AFE # <i>1-0-126</i>					
INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====>					\$1,850.12

TERMS INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED. CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT. CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND