

ORIGINAL

SIDE ONE

033-20791-0000

CONFIDENTIAL 05/1992

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

API NO. 15- 171-20,416 FROM CONFIDENTIAL

County Comanche
App E/2 NE NW Sec. 6 Twp. 33S Rge. 18W East West

4620 Ft. North from Southeast Corner of Section
2970 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

Lease Name Lousch "A" Well # 1

Field Name Wildcat

Producing Formation Viola

Elevation: Ground 2085 KB 2097

Total Depth 6225 PBD 6081

Operator: License # 3667

Name: Source Petroleum

Address 200 W. Douglas, Ste. 820

City/State/Zip Wichita, KS 67202

Purchaser: Panda

Operator Contact Person: Charles Schmidt

Phone (316) 262-7397

Contractor: Name: Allen Drilling Company

License: 5418

Wellsite Geologist: Randy Lilak

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd.

Gas Inj Delayed Comp.

Dry Other (Core, Water Supply, etc.)

If OWMO: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

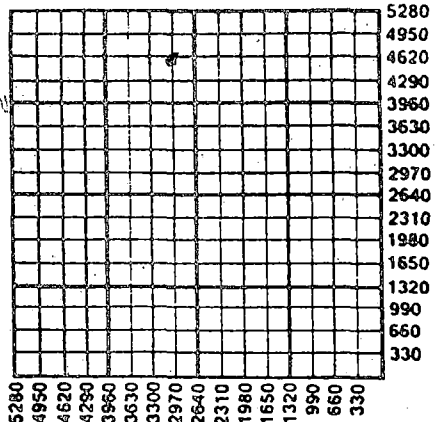
Mud Rotary Air Rotary Cable

10/15/90 11/3/90 11/23/90

Spud Date Date Reached TD Completion Date

RECEIVED
STATE CORPORATION COMMISSION

FFR 8 1991
2-8-91
CONSERVATION DIVISION
Wichita Kansas



Amount of Surface Pipe Set and Cemented at 641' Feet:

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from N/A

feet depth to _____ w/ _____ sx amt.

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 John D. Howard, Jr.
Title General Manager Date 2/4/91

Subscribed and sworn to before me this 4th day of February,
Virginia S. Fabian
Secretary of Public Safety
Date Commission Expires August 5, 1991

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

CONFIDENTIAL

SIDE TWO

Operator Name Source Petroleum Lease Name Lousch "A" Well # 1
 Sec. 6 Twp. 33S Rge. 18W East County Comanche
 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Formation Description <input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample																																				
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																					
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																					
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																					
<table border="1"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Bottom</th> </tr> </thead> <tbody> <tr><td>Anhydrite</td><td>1058</td><td>1073</td></tr> <tr><td>Wabaunsee</td><td>3460</td><td>3776</td></tr> <tr><td>Heebner</td><td>4324</td><td>4330</td></tr> <tr><td>Douglas</td><td>4356</td><td>4515</td></tr> <tr><td>Lansing-KC</td><td>4515</td><td>5001</td></tr> <tr><td>Marmaton</td><td>5016</td><td>5152</td></tr> <tr><td>Cherokee</td><td>5152</td><td>5219</td></tr> <tr><td>Mississippian</td><td>5219</td><td>5818</td></tr> <tr><td>Viola</td><td>5818</td><td>5982</td></tr> <tr><td>Simpson</td><td>5982</td><td>6108</td></tr> <tr><td>Arbuckle</td><td>6108</td><td>TD</td></tr> </tbody> </table>			Name	Top	Bottom	Anhydrite	1058	1073	Wabaunsee	3460	3776	Heebner	4324	4330	Douglas	4356	4515	Lansing-KC	4515	5001	Marmaton	5016	5152	Cherokee	5152	5219	Mississippian	5219	5818	Viola	5818	5982	Simpson	5982	6108	Arbuckle	6108	TD
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CASING RECORD

New Used
 Arbuckle

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"	23#	641	Lite	260	3% cc
					60/40 Poz	100	3% cc
Production	7 7/8	5 1/2"	15.5#	6106	common	275	cal seal/salt

PERFORATION RECORD

Acid, Fracture, Shot, Cement Squeeze Record
(Amount and Kind of Material Used) Depth

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record
4	5924-42	1200 gls 15% HCL w/FE squeezed w/150 sx cement
4	5866-5904'	2500 gls 15% HCL w/FE

TUBING RECORD

Size 2 3/8 Set At 5842 Packer At N/A Liner Run Yes No

Date of First Production _____ Producing Method Flowing Pumping Gas Lift Other (Explain) _____

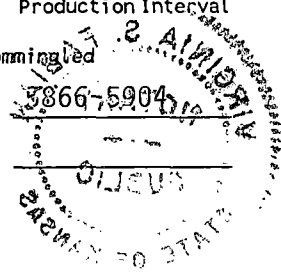
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
-0-		650	-0-		.75

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

Vented Sold Used on Lease (If vented, submit ACO-18.) Open Hole Perforation Dually Completed Commingled Other (Specify) _____



ORIGINAL

CONFIDENTIAL MAR 05 1992

DST DATA ATTACHED TO ACO-1

LOUSCH "A" #1

Appx E/2 NE NW, 6-33S-18W
Comanche County, Kansas

FROM CONFIDENTIAL

DST #1 4735-4750' Drum
On bottom w/DST #1 @ 9:45 A.M.
10/23/90
1st Open: Strong blow off BTM BCKT
in 30 sec, GTS in 20 min
2nd Open: Gauge 153 MCF in 5 min,
gauge 166 MCF in 10 min & stabilized
Rec: 180' GCM (tool slid 4')
IHP: 2352 FHP: 2352
IFP: 111-100 FFP: 77-88
ISIP: 1763 FSIP: 1763
BHT - None thermometer broke
* Charts indicate formation damage

DST #2 4840-4860' Swope
30-60 30-60
1st Open: Blow off bottom of
bucket immediately, GTS in
5 min, gauge 153 MCF in 5 min,
10 min 153 MCF
2nd Open: Gauge 166 MCF in
5 min, gauge 200 MCF in 10 min,
stabilized
Rec. 360' GCMW, 65,000 chl r
IHP: 2430 FHP: 2430
IFP: 88-111 FFP: 55-77
ISIP: 1763 FSIP: 1763
BHP 109⁰

DST #3 5233-5355' Mississippi
30-60 30-60 (began test @ 6:00 A.M.)
1st Open: Blow off Btm BCKT 30 sec,
GTS in 5 min, GA 170 MCF, 166 MCF in
10 min, 153 MCF in 15 min, 148 MCF in
20 min, stabilized
2nd Open: Gauged 265 MCF in 5 min,
" " 200 MCF " 15 min,
not stabilized and pressure falling
in 25 min, preparing to shut tool in
Rec. 270' mud
IHP: 2675 FHP: 2675
IFP: 144-133 FFP: 133-111
ISIP: 1542 FSIP: 1420
BHT 127⁰

DST #4 5828-5910' Viola
30-60 60-60 On bottom @ 3:45 P.M.
1st Open: Strong blow throughout, GTS in 3
min, gauge 1694 MCF in 15 min, stable
2nd Open: Strong blow throughout, GTS in 3
min, gauge 994 MCF in 10 min, stable
Rec. 40' GCM, GTS in 3 min
IHP: 2897 FHP: 2897
IFP: 277-211 FFP: 222-188
ISIP: 2129 FSIP: 2129
BHT 119⁰

DST #5 5953-5970' Simpson Dolomite
15-30 15-30
1st Open: Weak blow died
2nd Open: No blow
Rec. 65' mud
IHP: 2953 FHP: 2953
IFP: 55-66 FFP: 66-77
ISIP: 2084 FSIP: 2062
BHT 126⁰

DST #6 6107-6128' Arbuckle
15-30 15-30
1st Open: Very weak blow died in 2 min
2nd Open: Flushed tool, no help
Rec. 150' mud
IHP: 3020 FHP: 3020
IFP: 50-70 FFP: 70-70
ISIP: 2006 FSIP: 1796
BHT

DST #7 6131-6175'
30-60 60-60
1st Open: Very good blow off bottom in
1 min, good blow-back on SI
2nd Open: Very good blow off bottom in
1 min, good blow-back on SI
Rec. 3975' water
IHP: 3042 FHP: 3042
IFP: 188-1079 FFP: 1244-1929
ISIP: 2174 FSIP: 2174
BHT 142⁰

RECEIVED
STATE CORPORATION COMMISSION
FFR 8 1991
2-8-91
CONSERVATION DIVISION
Wichita, Kansas

FORM 1908 R-7

DISTRICT Pratt, Ks FROM CONFIDENTIAL DATE 10-16-90

TO: **HALLIBURTON SERVICES** YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: Source Petroleum (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

CONFIDENTIAL

WELL NO. #1 LEASE LOUSCH "A" SEC. _____ TWP. _____ RANGE _____
 FIELD _____ COUNTY COMANCHE STATE Ks OWNED BY _____

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____
 FORMATION THICKNESS _____ FROM _____ TO _____
 PACKER: TYPE _____ SET AT _____
 TOTAL DEPTH 793' MUD WEIGHT _____
 BORE HOLE 12 1/4"
 INITIAL PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF
 PRESENT PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING	NEW	23	8 5/8"	KB	643	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED
Cement 8 5/8" SURFACE CASING w/ 260 SLS FETE CONTAINERS
370 CC Followed By 180 SLS 40-60 Pp2 CONTAINERS 370 CC.

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

- As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED
- a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are 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 attorneys 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.
 - b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
 1. Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
 2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 3. Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.
 - c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
 - d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any case of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
 - e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
 - f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
 - g) That this contract shall be governed by the law of the state where services are performed or materials are furnished.
 - h) That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED _____ CUSTOMER
 DATE Oct 16, 1990
 TIME _____ A.M. P.M.

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

CUSTOMER

JOB LOG

15-833-20711-0000
FORM 2013 R-2

ORIGINAL

WELL NO. #1 LEASE #1450 #11 TICKET NO. 04425
CUSTOMER SOURCE Petroleum PAGE NO. 1
JOB TYPE 6 5/8" SURFACE DATE 10 Nov 95 5 1992

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0430							(CALLER) OUT - READY @ 0430
	0440							Run loc - Run Down No Set up
	0540							Run test on loc Hole Make - Circulate - Trip out w/ DP & REG UP TO Run loc
	0730							Start Circulate on Hole
	0945							Casing on Hole - Hook up & Break Core w/ Reg Pump
	0956	5.0	5	✓	✓	100		Run water ahead
	0959	6.7	94	✓	✓	325		Max Cmt
	1013							Finish Mixing - Release Pump
	1015	4.8	39	✓	✓	350		Displace Pulo
	1023			✓		350		Pulo Down - Close on Head - Cmt Circulates to Surface - Wash up
	1100							Job Complete - Truck has Released

FROM CONFIDENTIAL

CONFIDENTIAL

RECEIVED THANKS
STATE REGULATION COMMISSION - Reiko

FFR 8 1991
2-8-91
REGULATION DIVISION
Tulsa, OK 74105

ORIGINAL

WELL DATA

FIELD _____ SEC. _____ TWP. _____ RNG. _____ COUNTY *CONVERSE MISSISSIPPI* STATE *MISSISSIPPI*

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH *743'*

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<i>7/8"</i>	<i>23.7</i>	<i>8 1/4</i>	<i>FROM</i>	<i>CONFIDENTIAL</i>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <i>2 1/2" x 12"</i>	<i>1</i>	<i>Hewco</i>
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG <i>1 1/2" x 1"</i>	<i>1</i>	<i>4</i>
HEAD <i>DC</i>	<i>1</i>	<i>4</i>
PACKER		
OTHER <i>BASKET</i>	<i>1</i>	<i>2</i>

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <i>10-16</i> TIME <i>0030</i>	DATE <i>10-16</i> TIME <i>0700</i>	DATE <i>10-16</i> TIME <i>0945</i>	DATE <i>10-16</i> TIME <i>1100</i>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<i>D KENB</i>	<i>50120</i>	<i>...</i>
<i>D PROBERT</i>	<i>...</i>	<i>...</i>
<i>D DEBRATE</i>	<i>...</i>	<i>...</i>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB./GAL.-API

DISPL. FLUID _____ DENSITY _____ LB./GAL.-API

PROP. TYPE _____ SIZE _____ LB.

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

SURFACTANT TYPE _____ GAL. _____ IN.

NE AGENT TYPE _____ GAL. _____ IN.

FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN.

GELLING AGENT TYPE _____ GAL.-LB. _____ IN.

FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN.

BREAKER TYPE _____ GAL.-LB. _____ IN.

BLOCKING AGENT TYPE _____ GAL.-LB. _____

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT *CONVERSE*

DESCRIPTION OF JOB *4 1/4" LADDER*

RECEIVED
STATE OF MISSISSIPPI

DEPARTMENT *CONVERSE*

DESCRIPTION OF JOB *4 1/4" LADDER*

DATE *10-16-91*

CO. SERVICE DIVISION

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE *X*

HALLIBURTON OPERATOR *...*

COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<i>260</i>	<i>1275</i>	<i>Hewco</i>	<i>Bulk</i>	<i>3% CC</i>	<i>1.54</i>	<i>13.6</i>
	<i>100</i>	<i>Super Poz</i>	<i>...</i>	<i>...</i>	<i>3% CC</i>	<i>1.27</i>	<i>14.31</i>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____

BREAKDOWN _____ MAXIMUM _____

AVERAGE _____ FRACTURE GRADIENT _____

SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET *40'* REASON *BY REQUEST*

PRESLUSH: BBL-GAL. *5* TYPE *...*

LOAD & BKDN: BBL-GAL. _____ PAD: BBL-GAL. _____

TREATMENT: BBL-GAL. _____ DISPL: BBL-GAL. *39*

CEMENT SLURRY: BBL-GAL. *71.3 + 22.6 = 93.9*

TOTAL VOLUME: BBL-GAL. _____

REMARKS *See Job Log*

CUSTOMER _____ LEASE _____ WELL NO. _____ JOB TYPE _____ DATE *10-16-91*



P.O. Box 4442
Houston, Texas 77210

15-033-20791-0000

ORIGINAL CEMENTING LOG

RELEASED
MAY 6 5 1982
STAGE 1

Date 11-4-90 District WED. LOOSE Ticket No. 611049
Company SOURCE PETROLEUM Rig H-30 #
Lease COUSCH A Well No. 1
County COMANCHE State KANSAS
Location 6-335-13A Field WLUKAT
COLDWATER 4s, 9s

CASING DATA: PTA Squeeze
Surface Intermediate Production Liner
Size 5 1/2" Type MAVELICK Weight 15.5# Collar ST-C

Burst - 4210#
Collapse - 4040#
Casing Depths: Top RL Bottom 6106'
378" - Bl - 645'

Drill Pipe: Size 4 1/2" Weight 16.6# Collars XH
Open Hole: Size 7 7/8" T.D. 6225 ft. P.B. to _____ ft.

CAPACITY FACTORS:
Casing: Bbls/Lin. ft. .0238 Lin. ft./Bbl. 42.01
Open Holes: Bbls/Lin. ft. .0602 Lin. ft./Bbl. 16.599
Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
Annulus: Bbls/Lin. ft. .0309 Lin. ft./Bbl. 32.4
Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA: 400 GALS. FROM CONFIDENTIAL
Spacer Type: 400 GALS. REF. MUD SWEEP
Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

LEAD: Pump Time _____ hrs. Type _____
Excess _____

Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG
TAIL: Pump Time _____ hrs. Type CLASS H
SURE-FILL, 5# HOL-SEAL Excess _____

Amt. 75 Sks Yield 1.44 ft³/sk Density 15.0 PPG
WATER: Lead _____ gals/sk Tail 6.2 gals/sk Total 11 Bbls.

Pump Trucks Used 363-6430 Max Wolf
Bulk Equip. 2903-6483 John Kelley

Float Equip: Manufacturer WEATHERFORD
Shoe: Type FLOAT Depth 6106
Float: Type FLAPPER Depth 6092
Centralizers: Quantity 20 Plugs Top _____ Btm. _____
Stage Collars Set of 53TS
Special Equip. 40 RECTROCATING SCRATCHES
Disp. Fluid Type MUD Amt. 3 1/2 Bbls. Weight 9.0 PPG
Mud Type CHEMICAL Weight 9.0 PPG

COMPANY REPRESENTATIVE CHUCK SCHULTZ

CEMENTER KEVIN BRUNGARDT DATE 8-1991

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	AM (PM)	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	
7:30						ON LOCATION, REG UP JOB + SAFETY PROBLEMS RUN 5 1/2" CASING TO BOTTOM & BREAK CIRCULATION
2:15		300			6	REG UP TO CEMENT TUMP START MUD SWEEP
		500	9 1/2	9 1/2	5 1/2	MUD SWEEP IN - START SURE-FILL
		450	28 1/2	19	5 1/2	SURE-FILL IN - STOP PUMPS CHANGE VALVES - FLUSH PUMP + LINES CHANGE VALVES - RELEASE FLEX PLUG
		300			6	START H ₂ O DISPLACEMENT
		350	48 1/2	20	6	H ₂ O IN - START MUD - START 156
		300	148 1/2	100	3	SLOW RATE AS FLEX PLUG GOE THRU TOOL
		350	162 1/2	14	3 1/2	CEMENT TURNS SHOE - INC. RATE
		650	168 1/2	6		GRADUAL PRESSURE INCREASE
3:00		900	181	12 1/2		BUMP PLUG RELEASE PRESSURE + FLOATS HOLD! DAD TRIP PLUG FOR 2ND STAGE WAIT 30 MINUTES INCREASE PRESSURE - TOOL OPENS REG UP TO CIRCULATE / MUD

FINAL DISP. PRESS: 650 PSI BUMP PLUG TO 900 PSI BLEEDBACK 1/2 BBLs. THANK YOU



P.O. Box 4442
Houston, Texas 77210

15-033-20791-0000 ORIGINAL

RECEIVED NOV 6 1990
CEMENTING LOG

RELEASED

MUD 0 STAGE NO. 2

Date 11-4-90 District MFD. 6006F Ticket No. 611049
Company SOURCE TETRAFLUOR Rig H-30 #5
Lease COUSH A Well No. 1
County COMANCHE State KANSAS
Location 6-33s-18w Field WELDCAT
COLDWATER 4s #1s

CASING DATA: PTA Squeeze
Surface Intermediate Production
Size 5 1/2" Type MAVERICK Weight 15.5# Collar 17 1/2"

BURST - 4810'
COLLAPSE - 4040'
Casing Depths: Top KR Bottom 6106'
878' 6L-64S'

Drill Pipe: Size 4 1/2" Weight 16.6# Collars XH
Open Hole: Size 7 7/8" T.D. 6225 ft. P.B. to _____ ft.

CAPACITY FACTORS:
Casing: Bbls/Lin. ft. .0233 Lin. ft./Bbl. 42.01
Open Holes: Bbls/Lin. ft. .0602 Lin. ft./Bbl. 16.59
Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
Annulus: Bbls/Lin. ft. .0309 Lin. ft./Bbl. 32.4
Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:
Spacer Type: 20 BBL FROM DRY FLOW WATER
Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG
600 GALLONS REGULAR MUD SWEEP

LEAD: Pump Time _____
Excess _____
Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

TAIL: Pump Time _____ hrs. Type CLASS H
SURE FILL
Excess _____
Amt. 210 Skys Yield 1.33 ft³/sk Density 15.0 PPG
WATER: Lead _____ gals/sk Tail 6.2 gals/sk Total 31 Bbls.

Pump Trucks Used 363-6430 Max Wolf
Bulk Equip. 2903-6433 John Kelley

Float Equip: Manufacturer WEATHERFORD
Shoe: Type FLCAT Depth 6106
Float: Type NON AFU Depth 6082
Centralizers: Quantity 20 Plugs Top _____ Btm. _____
Stage Collars SET @ 5375'
Special Equip. 40 RECI. SCOTCHERS
Disp. Fluid Type FRESH H₂O Amt. 134 Bbls. Weight 8.34 PPG
Mud Type CHEMICAL Weight 9.0 PPG

COMPANY REPRESENTATIVE CHUCK SCHMIDT

CEMENTER KEVIN BRUNDAUT RECEIVED
REGISTRATION COMMISSION

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
						FFR 8 1991 7-8-91 CONSERVATION DIVISION
						RIG UP TO CEMENT PUMP
4:30	200				2	START SAE-FILL
	200		20	20	6	SALT FLUSH IN - START MUD SWEEP
	400		34	14	6	MUD SWEEP IN - START SAE-FILL
	550		78	44	6	SURE-FILL IN - STOP PUMPS
						CHANGE VALVES - FLUSH PUMP LINES
						CHANGE VALVES - RELEASE CLOSING PLUG
	100				2	START DISPLACEMENT
	150		80	2	6	INCREASE RATE
	200		134	54	6	SALT FLUSH TURNS SHOE
	200		154	20	6	MUD SWEEP TURNS SHOE
	175		168	14	4	CEMENT TURNS SHOE - SLOW RATE
	500		172	3	4	GRADUAL PRESSURE INCREASE
	200		198	26	3	SLOW RATE
	100		203	5	3	PRESSURE INCREASE
	1300				3	STAGE TOOL CLOSING
5:00	2000		206	3		BUMP PLUG
						HOOD PRESSURE
						RELEASE PRESSURE - TOOL HOLDS!
						DEPOSITION
						FLUID LEVEL
						DUNE

FINAL DISP. PRESS: 100 PSI BUMP PLUG TO 2000 PSI BLEEDBACK 1 BBLs. THANK YOU