

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

ORIGINAL

API NO. 15- 055-20085-001

County Finney

C - SW - NW Sec. 28 Twp. 21S Rge. 33W X W

3300 Feet from N (circle one) Line of Section

4620 Feet from EW (circle one) Line of Section

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

Lease Name Finnup Well # #2 OWVO

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 2884' KB 2889'

Total Depth 2750' PBDT 2712'

Amount of Surface Pipe Set and Cemented at 10 3/4" @ 814' 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.

Drilling Fluid Management Plan REWORK 8/21 8-11-95
(Data must be collected from the Reserve Pit)

Chloride content 41,000 ppm Fluid volume 4300 bbls

Dewatering method used allowed to dry naturally

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

_____ Quarter Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

Operator: License # 6234

Name: Petroleum Production Management, Inc.

Address 209 E. William, Suite 200

City/State/Zip Wichita, KS 67202

Purchaser: Pawnee Pipeline & Marketing, Inc.

Operator Contact Person: Frank E. Novy, Sr. V.P.

Phone (316) 265-4651

Contractor: Name: Murfin Drilling Company

License: 30606

Wellsite Geologist: none

Designate Type of Completion

_____ New Well X Re-Entry _____ Workover

_____ Oil _____ SWD _____ SIOW _____ Temp. Abd.

X Gas _____ ENHR _____ SIGW

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

If Workover:

Operator: Skelly Oil Co.

Well Name: Finnup "A" #1

Comp. Date 6/30/72 Old Total Depth 4800

_____ Deepening X Re-perf. _____ Conv. to Inj/SWD

X Plug Back _____ 2750' PBDT

_____ Conmingled _____ Docket No. _____

_____ Dual Completion _____ Docket No. _____

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

10/20/94 10/21/94 10/21/94
Spud Date OF START Date Reached TD Completion Date OF
OF WORKOVER WORKOVER

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 Frank E. Novy
Title Senior Vice President Date 8-7-95

Subscribed and sworn to before me this 7th day of August,
19 95.
Notary Public Connie L. Crook
Date Commission Expires 12-12-96

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 RECEIVED
KANSAS CORPORATION COMMISSION

AUG 07 1995

CONSERVATION DIV
WICHITA, KS

P1

Operator Name Petroleum Production Management, Inc. Lease Name Einnup Well # 2 OWWO

Sec. 28 Twp. 21S Rge. 33W
 East
 West

County Finney

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.)

List All E.Logs Run:

DLL-MSFL
 SDL-DSN-GR
 Acoustic Cement Bond
 HMST-GR

Log Formation (Top), Depth and Datums Sample
 Name Top Datum
 Herrington 2510' +379
 Krider 2554' +335
 Winfield 2590' +299
 Towanda 2649' +240
 Fort Riley 2702' +187

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"	10 3/4"		814'			
Production	7 7/8"	4 1/2"	9 1/2#	2744'	HLC	1250	2% CC.10# gil/sx
					prem. EA2	250	5% calseal. .6%

ADDITIONAL CEMENTING/SQUEEZE RECORD

Halad 322, 15% salt. Circ. 194 sx. to pit.

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	2654-74 - Towanda	2000 gal. 15% FE acid per zone. (total
4	2594-2604' - Winfield	6000 gal.) frac perms w/968 bbl.
4	2542-62' - Krider	Boragel & 127.000# 10-20 mesh

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8"	2517		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First. Resumed Production, SWD or Inj. 5-20-95 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		55	5.0		

Disposition of Gas: METHOD OF COMPLETION

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

Production Interval
 Open Hole Perf. Dually Comp. Commingled
 Other (Specify) _____

DAILY WELL RECORD

ORIGINAL

POOL _____

API NO. 15-055-20085-0001

WC _____

AFE NO. _____

LEASE: Finnup #2 OWWO Sec. 28 Twp. 21S Rge. 33W Spot C SW NW

LOCATION: 3300 FSL, 4620 FEL Sec. 28-21S-33W

ELEVATION: 2884 GR 2889 KB County Finney State Kansas

OPERATOR: Petroleum Production Management, Inc. Phone (316) 265-4651

CONTRACTOR: Murfin Drilling Co. Phone (316) 267-3241

CORRELATION WELL Finnup #1

FORMATION TOPS	SAMPLE TOPS	LOG TOPS	MIRT 10-20-94
B/Stone Corral			SPUD 10-20-94
Herrington		2510 +379 (+2)	SURFACE
Krider		2554 +335 (-12)	
Winfield		2590 +299 (+2)	
Towanda		2649 +240 (NA)	REMARKS Towanda & Fort
Fort Riley		2702 +187 (NA)	Riley not drilled on Finnup
RTD		2750 +139	#1

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DATE

REPORT

DEC 22 1994

10-20-94 MIRT.
 12:00 p.m. Begin drilling surface cmt. plug.
 5:00 p.m. Fell thru cmt. Run drill pipe & wash hole dn. to 2750'.
 10:00 p.m. RTD 2750'. Conditioning hole to log.

10-21-94 RTD 2750'. MW - 9.3. Viscosity 43. Wtr. loss 11.2 cc. Chlorides 41,000. Conditioning hole to log.
 2:00 a.m. Pulled drill pipe to collars @ btm. of surface pipe.
 3:00 a.m. TIH w/drill pipe - no hole problems.
 4:00 a.m. Circ. hole for 2 hrs. - full returns.
 6:00 a.m. POOH w/drill pipe to log.
 8:00 a.m. RU HLS & run DLL-MSFL-GR-caliper from TD 2750' to base of surf. csg. @ 814'.
 10:00 a.m. Ran CNCD-GR-caliper from TD 2750' to 2000'. POOH & lay dn. logging tool.
 11:00 a.m. Logging complete. PU RFT tool & TIH to get press. data. 1st tool would not work. POOH. PU 2nd tool.
 11:30 a.m. On btm. w/2nd tool - running press. tests. Made 14 sets - all zones recorded as tight but feel formations badly damaged. Herrington 142#, Krider 202#, Winfield 105#, Towanda 140#, Fort Riley 166#.
 12:30 p.m. Complete RFT tests & POOH & lay dn. RFT tool. RDMO HLS.
 1:30 p.m. TIH w/drill pipe to condition hole for csg.

CORRELATION DIVISION
WICHITA, KS

10-21-94

2:30 p.m.

3:30 p.m.

6:30 p.m.

On btm. w/drill pipe.

Circ. 1 hr. & start laying dn. drill pipe.

Start pipe in hole. Install guide shoe on shoe jt. & ran Baker triplex float in collar of 1st jt. Ran 86 jts. 4 1/2" - 9 1/2# tested to 4000# 8 RD csg. in hole. Ran 11 centralizers. Ran 3 cement baskets - 1 @ 2388', 1 @ 2003' & 1 @ 1171'. Set csg. 6' off btm. @ 2744'.

7:50 p.m.

9:15 p.m.

Pipe on btm.

RU Halliburton. Mix & pump 40 bbl. - 3% salt wtr. Pump 500 gal. mud flush - mix 2 sx. gel & mix & pump 1250 sx. HLC w/2% C.C. - 10#gil/sx. Tail in w/250 sx. premium EA-2 cmt. containing 5% calcium seal, .6% Halad - 322 - 15% salt. Pump cmt. in turbulent flow @ 6 BPM. Max. pumping cmt. press. 750#. Had full circulation thruout job. Circ. 194 sx. cmt. to pit. Plug on btm. @ 2744' - float valve. Press. to 1000#. Release press. Float holding ok. Job complete @ 10:43 p.m. Zero point = 7 1/2' ABH. Release rig.

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DEC 22 1994

CONSERVATION DIVISION
WICHITA, KS

PETROLEUM PRODUCTION MANAGEMENT, INC.

WELL REPORT

ORIGINAL

X Completion
 Workover

POOL _____ LEASE # _____

API# 15-055-20085-0001 AFE # _____

LEASE Finnup #2 OWWO Sec. 28 Twp. 21S Rge. 33W Spot C SW SW

ZERO POINT 7 1/2' ABH ELEV. 2884 GR 2889 KB CO. Finney STATE Kansas

OPERATOR Petroleum Production Management, Inc. RTD 2750 LTD 2750 PBTD _____

CONTRACTOR Gressel Well Service CSG. SIZE & 10 3/4" @ 814'
 DEPTH SET 4 1/2" @ 2744' WT. 9 1/2#

NEW OIL WELL _____ Perfs. _____ Zone _____

NEW GAS WELL X Perfs. 2542-62' Zone Krider
 Perfs. 2594-2604' Zone Winfield
 Perfs. 2654-74' Zone Towanda
 B.P. _____

OLD OIL WELL _____ Perfs. _____ Zone _____

OLD GAS WELL _____ Perfs. _____ Zone _____
 B.P. _____

REMARKS: _____

REPORT

11-16-94 MIRU Gressel WS. PU 4 1/2" csg. scraper w/blade bit on btm. & TIH w/86 jts. 2 3/8" EUE tbg. to PBTD 2710'. POOH w/tbg. Layed dn. scraper & bit. RU HLS PU GR-CCL-bond log tool & TIH. Log from 2704-2000' & from 1600-1000'. POOH w/logging tool. Lay dn. logging tool. Swab well dn. to 1550'. PU 3 3/8" csg. gun dressed w/4 SPF - 32 gram jet charge & TIH. Perf as follows:

2654-74'	Towanda	total 80 holes
2594-2604'	Winfield	total 40 holes
2542-62'	Krider	total 80 holes

POOH w/gun. All shots fired. RDMO HLS. SDFN.
 Daily cost - \$7,500

11-17-94 PU Halliburton RBP & RTTS pkr. & TIH on 2 3/8" EUE tbg. Set RBP @ 2704'. Spot 10 bbl. acid & 2 bbl. lease salt wtr. PU & set RTTS @ 2629'. Acidize Towanda perfs w/2000 gal. 15% FE-NE acid w/max. press. 1000# - broke to 390#. Treat zone @ 2.8 BPM @ 400#. Release RTTS & lower tbg. to RBP. PU RBP & raise to 2641' & set. Raise pkr. to 2565' & set. Treat Winfield perfs w/2000 gal. 15% FE-NE acid w/max. press. 800#. Treat zone @ 2.5 BPM @ 450#. Lower tbg. & PU RBP & pull up to 2577' & set. Raise pkr. to 2534' & set. Treat Krider perfs w/2000 gal. 15% FE-NE acid w/max. press. 820#. Treat zone @ 2.6 BPM @ 350#. ISIP - vac. Total load 185 bbl. Job complete @ 11:54 a.m. Lower RTTS & PU RBP. POOH w/tbg. & laid dn. RTTS & RBP. SDFN.

Daily cost - \$10,415

Cum. cost - \$17,915

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11-18-94 7:00 a.m. - RU Halliburton & prepare to frac. 9:47 a.m. - frac Towanda, Winfield & Krider perfs dn. 4 1/2" csg. w/968 bbl. Boragel G-3195 fluid system. Pump 15,000 gal. pad @ 40 BPM @ 530#. Pump 3000 gal. w/2 PPG 10-20 sd. @ 40 BPM @ 470#. Pump 2000 gal. w/3 PPG 10-20 sd. @ 40 BPM @ 400#. Pump 2000 gal. w/4 PPG 10-20 sd. @ 40 BPM @ 450#. Pump 3000 gal. w/5 PPG 10-20 sd. @ 40 BPM @ 400#. Pump 4000 gal. w/6 PPG 10-20 sd. @ 41 BPM @ 400#. Pump 4000 gal. w/7 PPG 10-20 sd. @ 43 BPM @ 380#. Pump 5000 gal. w/8 PPG 10-20 sd @ 42 BPM @ 425#. Pump 1754 gal. flush @ 44 BPM @ 600#. ISIP 348#. 5 min. - 160#. 10 min. - 98#. 15 min. - 50#. Total sand pumped 127,000# 10-20 mesh sd. Job complete @ 10:15 a.m. SDFN. Cost - 32,000 Hal., 1000 rig, 1000 wtr., 1000 frac tank, 450 supervision.
Daily cost - \$35,450 Cum. cost - \$53,365

11-21-94 No pressure on well. PU sand pump & TIH. Top of sand @ 2642'. Sand pumped & cleaned out to 2692'. SDFN.
Daily cost - \$1,200 Cum. cost - \$54,565

11-22-94 TIH w/sand pump. Top of sand @ 2677'. Cleaned out to 2712'. Layed sand pump dn. & TIH w/15.80' MA, 1/10' SN & 29 jts. 2 3/8" EUE tbg. Btm. of string @ 2517'. RU swab. TIH. Fluid level @ 2100'. Swab from SN. Swabbed 50 bbls. SDFN.
Daily cost - \$1,650 Cum. cost - \$56,215

11-23-94 85# press. on back side. Commence swabbing @ 8:00 p.m. Fluid level constant @ 3700'. Swab back 75 bbls. Press. 170#. SDFN.
Daily cost - \$1,650 Cum. cost - 57,865

11-24-94 Press. 185#. Not unloading out of tbg.

11-25-94 Press. 185#.

11-26-94 Press. 185#.

11-28-94 Ran swab & swabbed 5 hrs. w/fluid level remaining constant @ 150'. Rec. frac wtr. & blow of gas after each run. Total fluid swabbed from hole est. 100 bbls. SICP 170#. Layed dn. swab. PU 2" X 1 1/2" X 10' M-M BHD pump w/6' gas anchor & 1 - 2' - 5/8" pony rod on top of pump & TIH w/100 5/8" sucker rods, 1 - 10' & 1 - 2' pony rod, 1 1/4" X 16' polish rod w/5' HF liner. Seat pump ok. Clamp off polish rod. RDMO Gressel WS. Cost - 1200 rig, 3250 tbg., 1500 rods, 1000 pump, 450 supervision.
Daily cost - \$7,400 Cum. cost - \$65,265

11-30-94 Install pumping unit. Out of propane.

12-1-94 Filled propane tank. Start pumping unit. 150# SICP. Pumping good stream of wtr. - frac load.

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CONSERVATION DIVISION
WICHITA, KS



HALLIBURTON

HALLIBURTON ENERGY SERVICES

CHARGE TO: B.P.M.E.
 ADDRESS:
 CITY, STATE, ZIP CODE:

COPY

TICKET

No.

635173 - 0

PAGE 1 OF 3

FORM 1906 R-13

SERVICE LOCATIONS 1. 025540 <u>LEBERL</u>	WELL/PROJECT NO. <u>A-1</u>	LEASE <u>Finnup</u>	COUNTY/PARISH <u>FINNEY</u>	STATE <u>Ks</u>	CITY/OFFSHORE LOCATION	DATE <u>10-21-94</u>	OWNER <u>SAME</u>
2. 025535 <u>Miguel</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <u>MURFEN</u>	RIG NAME/NO.	SHIPPED VIA <u>HES</u>	DELIVERED TO <u>Location</u>	ORDER NO.
3. <u>Lamar Colo.</u>	WELL TYPE <u>02</u>	WELL CATEGORY <u>01</u>	JOB PURPOSE <u>035</u>	WELL PERMIT NO.	WELL LOCATION		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF								
000-117					MILEAGE	1	U	166	M.	2.75	456	50
001-016					Pump Charge	6	HR	2744	FT		1455	00
030-016					5 WIPER Top Plug	4 1/2	IN	1	EA		45	00
018-315					MUA FLUSH	1	gal	500	EA	.65	325	00

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 KANSAS CORPORATION COMMISSION
 DEC 22 1994
 CONSERVATION DIVISION
 WICHITA, KS

ORIGINAL

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions. CUSTOMER OR CUSTOMER'S AGENT SIGNATURE <u>X Ernest Boyle</u> DATE SIGNED _____ TIME SIGNED _____ <input type="checkbox"/> A.M. <input type="checkbox"/> P.M. <input type="checkbox"/> do <input type="checkbox"/> do not require IPC (Instrument Protection). <input type="checkbox"/> Not offered	SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		SURVEY			AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL <u>2,281</u> <u>50</u> FROM CONTINUATION PAGE(S) <u>24,540</u> <u>89</u> SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE <u>92,114</u> <u>89</u>
	TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?						
	BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?						
	TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?						
	TUBING SIZE	TUBING PRESSURE	WELL DEPTH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					
TREE CONNECTION	TYPE VALVE	ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO							
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND									

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) <u>Ernest Boyle</u>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <u>X Ernest Boyle</u>	HALLIBURTON OPERATOR/ENGINEER <u>ROBERT E. WOOD</u>	EMP # <u>P.4360</u>	HALLIBURTON APPROVAL
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TERMS AND CONDITIONS

For good and valuable consideration received, Customer (as identified on the face of this document) and Halliburton Energy Services, a division of Halliburton Company (hereinafter "Halliburton") agree as follows:

A. CUSTOMER REPRESENTATION - Customer warrants that the well is in proper condition to receive the services, equipment, products, and materials to be supplied by Halliburton.

B. PRICE AND PAYMENT - The services, equipment, products, and/or materials to be supplied hereunder are priced in accordance with Halliburton's current price list. All prices are exclusive of taxes. If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If Customer has an approved open account, invoices are payable on the twentieth day after the date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

C. RELEASE AND INDEMNITY - CUSTOMER AGREES TO RELEASE HALLIBURTON GROUP FROM ANY AND ALL LIABILITY FOR ANY AND ALL DAMAGES WHATSOEVER TO PROPERTY OF ANY KIND OWNED BY, IN THE POSSESSION OF, OR LEASED BY CUSTOMER AND THOSE PERSONS AND ENTITIES CUSTOMER HAS THE ABILITY TO BIND BY CONTRACT. CUSTOMER ALSO AGREES TO DEFEND, INDEMNIFY, AND HOLD HALLIBURTON GROUP HARMLESS FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, COSTS, EXPENSES, ATTORNEY FEES AND DAMAGES WHATSOEVER FOR PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE AND LOSS RESULTING FROM:

LOSS OF WELL CONTROL; SERVICES TO CONTROL A WILD WELL WHETHER UNDERGROUND OR ABOVE THE SURFACE; RESERVOIR OR UNDERGROUND DAMAGE, INCLUDING LOSS OF OIL, GAS, OTHER MINERAL SUBSTANCES OR WATER; SURFACE DAMAGE ARISING FROM UNDERGROUND DAMAGE; DAMAGE TO OR LOSS OF THE WELL BORE; SUBSURFACE TRESPASS OR ANY ACTION IN THE NATURE THEREOF; FIRE; EXPLOSION; SUBSURFACE PRESSURE; RADIOACTIVITY; AND POLLUTION AND ITS CLEANUP AND CONTROL.

CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS WILL APPLY EVEN IF THE LIABILITY AND CLAIMS ARE CAUSED BY THE SOLE, CONCURRENT, ACTIVE OR PASSIVE NEGLIGENCE, FAULT, OR STRICT LIABILITY OF ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, THE UNSEAWORTHINESS OF ANY VESSEL OR ANY DEFECT IN THE DATA, PRODUCTS, SUPPLIES, MATERIALS OR EQUIPMENT FURNISHED BY HALLIBURTON GROUP WHETHER IN THE DESIGN, MANUFACTURE, MAINTENANCE OR MARKETING THEREOF OR FROM A FAILURE TO WARN OF SUCH DEFECT. "HALLIBURTON GROUP" IS DEFINED AS HALLIBURTON, ITS PARENT, SUBSIDIARY, AND AFFILIATED COMPANIES AND ITS/THEIR OFFICERS, DIRECTORS, EMPLOYEES, AND AGENTS. CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS APPLY WHETHER THE PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE OR LOSS IS SUFFERED BY ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, CUSTOMER, OR ANY OTHER PERSON OR ENTITY AND THE CUSTOMER WILL SUPPORT SUCH OBLIGATIONS ASSUMED HEREIN WITH LIABILITY INSURANCE TO THE MAXIMUM EXTENT ALLOWED BY APPLICABLE LAW.

D. EQUIPMENT LIABILITY - Customer shall at its risk and expense attempt to recover any Halliburton equipment lost or lodged in the well. If the equipment is recovered and repairable, Customer shall pay the repair costs, unless caused by Halliburton's sole negligence. If the equipment is not recovered or is irreparable, Customer shall pay the replacement cost, unless caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, Customer shall meet all requirements of Section 39.15(a) of the Nuclear Regulatory Commission regulations and any other applicable laws or regulations concerning retrieval or abandonment and shall permit Halliburton to monitor the recovery or abandonment efforts all at no risk or liability to Halliburton. Customer shall be responsible for damage to or loss of Halliburton equipment, products, and materials while in transit aboard Customer-supplied transportation, even if such is arranged by Halliburton at Customer's request, and during loading and unloading from such transport. Customer will also pay for the repair or replacement of Halliburton equipment damaged by corrosion or abrasion due to well effluents.

E. LIMITED WARRANTY - Halliburton warrants only title to the equipment, products, and materials supplied under this agreement and that same are free from defects in workmanship and materials for one year from date of delivery. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's sole liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale, lease or use of any equipment, products, or materials is expressly limited to the replacement of such on their return to Halliburton or, at Halliburton's option, to the allowance to Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, consequential, or punitive damages. 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 EQUIPMENT, MATERIALS, 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 GROUP AGAINST ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION, even if such is contributed to by Halliburton's negligence or fault. Halliburton also does not warrant the accuracy of data transmitted by electronic process, and Halliburton will not be responsible for accidental or intentional interception of such data by third parties.

F. GOVERNING LAW - The validity, interpretation and construction of this agreement shall be determined by the laws of the jurisdiction where the services are performed or the equipment or materials are delivered.

G. WAIVER - Customer agrees to waive the provisions of the Texas Deceptive Trade Practices-Consumer Protection Act or any similar federal or state statute to the extent permitted by law.

H. MODIFICATIONS - Customer agrees that Halliburton shall not be bound by any modifications to this agreement, except where such modification is made in writing by a duly authorized executive officer of Halliburton. Requests for modifications should be directed to the Vice President - Legal, 5151 San Felipe, Houston, Texas 77056.

WELL DATA

FIELD _____ SEC 28 TWP. 21 S RNG. 33 W COUNTY FINNEY STATE KS

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 _____

JOB DATA

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>10-21-94</u> TIME <u>12:00</u>	DATE <u>10-21-94</u> TIME <u>12:30</u>	DATE <u>10-21-94</u> TIME <u>20:50</u>	DATE <u>10-21-94</u> TIME <u>22:44</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>R. Elwood</u>	<u>40075</u>	<u>CRACOR KS</u>
<u>D. Nitzsche</u>	<u>52936</u> <u>7848 (P)</u>	<u>"</u>
<u>G. KRISTIAN</u>	<u>4037</u>	<u>"</u>
<u>J. McINTIRE</u>	<u>52920</u>	<u>LANARK Colo</u>
<u>J. WILSON</u>	<u>5303 (B)</u>	<u>Hogston KS</u>
<u>P. BOONE</u>	<u>4444</u>	<u>"</u>
<u>S. PEETER</u>	<u>41444</u>	<u>"</u>
	<u>6.9613</u>	<u>4234</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		<u>C</u>
GUIDE SHOE		<u>O</u>
CENTRALIZERS		<u>m</u>
BOTTOM PLUG		<u>P</u>
TOP PLUG		
HEAD		
PACKER		
OTHER		

MATERIALS

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

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

PROP. TYPE _____ SIZE _____

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 5001 CONT

DESCRIPTION OF JOB 4 1/2 Logging

JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.

CUSTOMER REPRESENTATIVE X Elwood, R

HALLIBURTON OPERATOR ROBERT ELWOOD COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>1250</u>	<u>H. C. C.</u>	<u>H</u>	<u>B</u>	<u>2% C.C., 10#/34 Gilsonite</u>	<u>1.99</u>	<u>12.4</u>
	<u>250</u>	<u>Preem</u>	<u>H</u>	<u>B</u>	<u>52 E.A. 2, 6" Licin H100 322, 10% Salt</u>	<u>1.40</u>	<u>15.3</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____

BREAKDOWN _____ MAXIMUM _____

AVERAGE _____ FRACTURE GRADIENT _____

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

HYDRAULIC HORSEPOWER _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET 31.94 REASON SHOE JOINT

PRESLUSH: BBL.-GAL. 40, 10/10 TYPE SALT, M.F., G-1

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

TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. 43.9

CEMENT SLURRY: BBL.-GAL. 443 + 1.93

TOTAL VOLUME: BBL.-GAL. _____

REMARKS

RECEIVED

KANSAS CORPORATION COMMISSION

DEC 22 1994

CUSTOMER PPMT
LEASE FINNEY
WELL NO. A-1
JOB TYPE 4 1/2 Logging
DATE 10-21-94



JOB LOG HAL-2013-C

DATE: 10-21-94 PAGE NO: 1

CUSTOMER: P.P.O.I. WELL NO.: A-1 LEASE: FINNELL JOB TYPE: 4 1/2 long string TICKET NO.: 635173

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	12:00							called out ready 12:00
	17:30							on loc Rig Pulling B.O.P
	18:15							START CASING
	19:45							CASING ON BOTTOM
	19:55							CIRCULATE w/Rig
	20:50							Hook to Halliburton
	20:51	42.8	60		X	125		START PRE-FINISH
	21:15	6.6	443		X	250		START LEAD CMT ORIGINAL
	22:21	7.7	62.3		X	185		START TAIL CMT
	22:29				X	0		SHUT DOWN
	22:30				X	0		Drop Plug / WASH Pumps to Pit
	22:34	4.3	43.9		X	0		START Displacement
	22:44				X	690		Plug Down / Float Holding
	21:10	3	3					Plug RATE Hole
	21:11							SHUT DOWN
								Circulated to Pit 69 BBLs 194 SKS
								THANK YOU FOR CALLING HALLIBURTON ROBERT & CREW
								RECEIVED KANSAS CORPORATION COMMISSION
								DEC 22 1994
								CONSERVATION DIVISION WICHITA, KS

CUSTOMER