

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

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: Joe Baker

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.
 Gas ENHR 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 PBTB
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

10-10-94 10-14-94 10-15-94
Spud Date Date Reached TD Completion Date

API NO. 15- 055-21335-0000

County Finney

- - C - SW Sec. 15 Twp. 21S Rge. 34W X X W

1320 Feet from SN (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 Lang Well # 5

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 2969' KB 2974'

Total Depth 2760' PBTB _____

Amount of Surface Pipe Set and Cemented at 8 jts. @ 356 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 2759'

feet depth to surface w/ 720 sx cmt.

Drilling Fluid Management Plan ALT 2 & 7H 8-11-95
(Data must be collected from the Reserve Pit)

Chloride content 51,000 ppm Fluid volume 4200 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. _____

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 5-18-95

Subscribed and sworn to before me this 18th day of May, 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)

~~AMENDED TO ADD IP, CORRECT ALT III INFO~~

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KANSAS CORPORATION COMMISSION

Form ACO-1 (7-91)



MAY 22 1995

CONSERVATION DIVISION
WICHITA, KS

PI

1442190

SIDE TWO

Operator Name Petroleum Production Management, Inc. Lease Name Lang Well # 5

Sec. 15 Twp. 21S Rge. 34W East County Finney

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 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
CNCD-GR-caliper
Cement Bond-MSG-CCL

Log Formation (Top), Depth and Datums Sample
Name Top Datum
B/Stone Corral 2079' +895
Herrington 2516' +458
Krider 2553' +421
Winfield 2591' +383
Towanda 2639' +324
Fort Riley 2704' +270

CASING RECORD <input type="checkbox"/> New <input checked="" type="checkbox"/> 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"	23#	356'	60/40 poz.	220	3% CC, 2% gel
Production	7 7/8"	4 1/2"	9 1/2#	2759'	HLC	500	2% CC, 10# gill/sx
					pre. EA 2	100	5% calseal, .6%

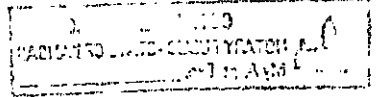
ADDITIONAL CEMENTING/SQUEEZE RECORD Halad 322, 15% salt, circ. 22 sx. to pit

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)	
		Amount	Depth
4	2660-80' - Towanda	2000 gal. 15% FE acid each zone (total	
4	2642-46', 2614-20', 2589-2601' - Winfield	6000 gal.) frac perms w/953 bbl.	
4	2554-64' - Krider	Boragel & 127,000# 10-20 mesh sand	

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 3/8"	2513'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.			Producing Method		
2-25-95			<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0	73	25	NA	

Disposition of Gas: METHOD OF COMPLETION Vented Sold Used on Lease (If vented, submit ACO-18.) Open Hole Perf. Dually Comp. Commingled Other (Specify)



DAILY WELL RECORD

ORIGINAL

POOL Hugoton API NO. 15-055-21335.0000
 WC _____ AFE NO. _____
 LEASE: Lang Gas Unit #5 Sec. 15 Twp. 21S Rge. 34W Spot C SW
 LOCATION: 1320 FSL, 1320 FWL Sec. 15-21S-34W
 ELEVATION: 2969 GR 2974 KB County Finney State Kansas
 OPERATOR: Petroleum Production Management, Inc. Phone (316) 265-4651
 CONTRACTOR: Murfin Drilling Co. - Rig #3 Phone (316) 267-3241
 CORRELATION WELL Lang #6

FORMATION TOPS	SAMPLE TOPS	LOG TOPS	MIRT 10-10-94
B/Stone Corral	2082 +892 (-15)	2079 +895	SPUD 2:30 p.m. 10-10-94
Herrington	2520 +454 (-12)	2516 +458	SURFACE 8 jts. 8 5/8" @ 356
Krider	2558 +416 (-13)	2553 +421	w/220 sx. 60/40 poz. 3%
Winfield	2595 +379 (-12)	2591 +383	CaCl 2% gel.
Towanda	2657 +317 (-12)	2661 +313	REMARKS RECEIVED KANSAS CORPORATION COMMISSION
Fort Riley	2710 +264 (-10)	2704 +270	
RTD	2760 +214	2758 +216	DEC 22 1994

CONSERVATION DIVISION
WICHITA, KS

<u>DATE</u>	<u>REPORT</u>
10-10-94	MIRT. Spud w/12 1/4" bit @ 2:30 p.m. Set 8 jts. 8 5/8" @ 356' w/220 sx. 60/40 poz. 3% CaCl 2% gel. Circ. cmt. to surface. Plug dn. @ 7:30 p.m. 10-10-94. Drilled out @ 7:30 a.m. 10-11-94.
10-11-94	Dev. 1/4° @ 356'. Drilling ahead.
10-12-94 8:00 a.m.	Dev. 1/2° @ 815', 1/2° @ 1432'. MW - 8.9. Drilling @ 2015'.
10-13-94 8:00 a.m.	Dev. 1/2° @ 2575'. MW - 9.1. Viscosity 51. Wtr. loss 11.2 cc. Chlorides 51,000. Running DST #1 - 2524-75' (Krider) DST #1 - 2524-75' (Krider) Open 90, SI 60, Open 60, SI 60. 1st open - strong blow immediately. GTS 60 min. 90 min. - 9.2 MCF thru 1/4" choke. 2nd open - stab. @ 53.3 MCF thru 3/4" choke. IFP-40-50. ISIP 400#. FFP-70-70. FSIP 400#. Temp. 107°.
1:30 p.m.	Starting back in hole to resume drilling. DST #2 - 2598-2640' (Winfield) Open 90, SI 60, Open 90, SI 90. 1st open - weak 4" blow thruout. 2nd open - strong blow. Rec. 810' gas in pipe, 90' VSGCM. IFP-60-60. ISIP 250#. FFP-70-70. FSIP 460#. Temp. 110°.
10-14-94 9:00 a.m.	MW - 9.4. Viscosity 49. Wtr. loss 12.8 cc. Chlorides 44,000. Preparing for DST #3 - 2662-95' (Towanda)

ORIGINAL

Page 2

Petroleum Production Management, Inc. - Lang #5

10-14-94

4:00 p.m.

DST #3 - 2662-95' (Towanda) Open 90, SI 60, Open 60, SI 90. 1st open - strong blow off btm. of bucket in 5 min. GTS in 18 min. of 1st SI = 108 min. 2nd open - GTS immediately. Stab @ 5.3 MCF thru 1/4" choke. Rec. 70' GCM - 5% gas. IFP-40-50. ISIP 400#. FFP-70-70. FISP 400#. Temp. 110°.

6:00 p.m.

TIH to continue drilling.

8:00 p.m.

RTD 2760'. Conditioning hole to log.

9:00 p.m.

POOH to log.

11:00 p.m.

RU Halliburton Wireline & ran DLL-GR-Caliper & CNCD-GR-Caliper openhole logs. LTD 2758'.

10-15-95

4:00 a.m.

Logging complete. RD HLS. TIH w/drill pipe to condition hole for production csg.

5:30 a.m.

Start laying dn. drill pipe. Took 2 hrs. to remove BOP.

10:00 a.m.

PU 4 1/2" csg. shoe jt. Installed centralizer 5' up & install float valve in 1st collar @ 2715' & TIH w/85 jts. 4 1/2" - 9 1/2# used - tested to 4000# - 8 RD csg.

11:15 a.m.

Tagged btm. - lacking 1 jt. csg. according to pipe tally. Pumped on csg. & circ. attempting to wash material but csg. felt to be on solid btm. @ RTD. Set csg. 1' off btm. @ 2759'. Must have not tallied 1 jt. of csg. or numbered 2 jts. same #.

12:00 p.m.

RU Halliburton. Mix & pump 40 bbl. - 3% salt wtr. Pump 500 gal. mud flush - mix 2 sx. gel & mix & pump 500 sx. HLC w/2% Cal - 10#gil/sx. Tail in w/100 sx. premium EA-2 cmt. containing 5% calcium seal, .6% Halad - 322 - 15% salt. Pump cmt. in turbulent flow @ 6 BPM while reciprocating csg. Max. pumping cmt. press. 750#. Had full circulation thruout job. Circ. 22 sx. cmt. to pit. Pumped 3/4 bbl. overdisplacement but did not bump float w/plug. SD Halliburton pump @ 750# press. Release press. Float holding ok. Job complete @ 1:30 p.m. 10-15-94. Zero point = 7' ABH. Release rig.

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CONSERVATION DIVISION
WICHITA, KS

PETROLEUM PRODUCTION MANAGEMENT, INC.

WELL REPORT

ORIGINAL

X Completion
 _____ Workover

POOL _____ LEASE # _____

API# 15-055-21335 AFE # _____

LEASE Lang #5 Sec. 15 Twp. 21S Rge. 34W Spot C SW

ZERO POINT 7' ABH ELEV. 2969 GR 2974 KB CO. Finney STATE Kansas

OPERATOR Petroleum Production Management, Inc. RTD 2760 LTD 2758 PBSD _____

CONTRACTOR Gressel Well Service CSG. SIZE & DEPTH SET 8 5/8" @ 356' WT. 23#
 4 1/2" @ 2759'

NEW OIL WELL _____ Perfs. _____ Zone _____

NEW GAS WELL X Perfs. Krider Zone 2554-2564' 4 SPF
 Perfs. Winfield Zone 2589-2601' 4 SPF
 Perfs. Winfield Zone 2614-2620' 4 SPF
 Perfs. Winfield Zone 2642-2646' 4 SPF
 Perfs. Towanda Zone 2660-2680' 4 SPF
 B.P. _____

OLD OIL WELL _____ Perfs. _____ Zone _____

OLD GAS WELL _____ Perfs. _____ Zone _____

B.P. _____

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REMARKS: _____

CONSERVATION DIVISION
 WICHITA, KS

REPORT

10-24-94 MIRU Gressel WS. PU 4 1/2" csg scraper w/blade bit on btm. of scraper & TIH on 2 3/8" tbg. Tagged up @ 2585'. Approx. 130' of cmt. in csg. Halliburton bbl. counter incorrect when pumping plug on cmt. SDFN. Cost - 500 rig, 100 scraper & bit, 225 supervision.
 Daily cost - \$825

10-25-94 RU Weatherford power swivel & circulating pump. Started drilling cmt. & drilled 130' cmt. to 2714' by tbg. tally in 8 hrs. POOH w/tbg., scraper & blade bit. Lay dn. scraper & blade bit & SDFN. Cost - 1000 rig, 1500 swivel & pump, 150 scraper & bit, 450 supervision.
 Daily cost - \$3,100 Cum. cost - \$3,925

10-26-94 RU HLS. PU bond log tool w/GR-CCL & TIH. LTD 2708'. Ran bond log-GR-CCL from 2708'-2000' & 1600'-1000'. POOH w/logging tool. PU perforating guns & TIH. Perf all zones w/32 gram jet charge 4 SPF csg. gun. Perf as follows:

Towanda	2660-2680'	4 SPF	total 80 holes
Winfield	2643-2646', 2614-2620' & 2589-2601'	4 SPF	total 92 holes
Krider	2554-2564'	4 SPF	total 40 holes

All shots fired. Total 212 holes. POOH w/gun & lay dn. RDMO HLS. PU Halliburton RBP & RTTS pkr. & TIH on 2 3/8" EUE tbg. to acidize all zones. Set RBP @ 2685'. PU RTTS to 2655' & acidize Towanda w/2000 gal. 15% FE-NE acid. Max. press. 481#. Treat zone @ 3 BPM @ 420#. Release RTTS & PU RBP. Raise RBP to 2653' & set. Raise RTTS to 2576' & treat 3 sets of Winfield perfs w/2000 gal. 15% FE-NE acid @ 3 BPM. Max. press. 398#. Treat zone @ 360#.

ORIGINAL

Page 2 - Petroleum Production Management, Inc. - Lang #5 Completion

10-26-94 (Cont.)

Lower pkr. & PU RBP. Raise RBP to 2575' & set. Raise RTS to 2544' & set. Treat Krider perms w/2000 gal. 15% FE-NE acid. Max. press. 446#. Treat zone @ 2.9 BPM @ 250#. Total load 203 bbl. acid & salt wtr. flush. Lower RTTS to RBP & POOH w/tbg., pkr. & RBP. Lay dn. REP & pkr. & release Halliburton. SDFN. Cost - 1200 rig, 6200 Halliburton, 6500 HLS, 450 supervision.

Daily cost - \$14,350

Cum. cost - \$18,275

10-27-94 7:00 a.m. - RU Halliburton & prepare to frac. 9:30 a.m. - frac Towanda, Winfield & Krider perms dn. 4 1/2" csg. w/953 bbl. Boragel G-3195 fluid system. Pump 15,000 gal. pad @ 40 BPM @ 590#. Pump 3000 gal. w/2 PPG 10-20 sd. @ 40 BPM @ 528#. Pump 2000 gal. w/3 PPG 10-20 sd. @ 40 BPM @ 410#. Pump 2000 gal. w/4 PPG 10-20 sd. @ 40 BPM @ 375#. Pump 3000 gal. w/5 PPG 10-20 sd. @ 40 BPM @ 348#. Pump 4000 gal. w/6 PPG 10-20 sd. @ 40 BPM @ 305#. Pump 4000 gal. w/7 PPG 10-20 sd. @ 40 BPM @ 342#. Pump 5000 gal. w/8 PPG 10-20 sd @ 40 BPM @ 294#. Pump 1743 gal. flush @ 42 BPM @ 303#. ISIP 163#. 5 min. - 144#. 10 min. - 115#. 15 min. - 77#. Total sand pumped 127,000# 10-20 mesh sd. Job complete @ 9:57 a.m. SDFN. Cost - 30,000 Hal., 1000 rig, 1000 wtr., 1000 frac tank, 450 supervision.

Daily cost - \$33,450

Cum. cost - \$51,725

10-28-94 Csg. on vac. RU sand pump & TIH. Tagged up @ 2688' - 20' of sand on btm. Sand pumping full bailers of sand & cleaned out to PBDT 2708'. 12:00 p.m. - wait 30 min. Run sand pump - hole clean. Frac gel was broken nicely. Lay dn. sand pump. PU 15' MA w/slotted top 2', 1' X 2 3/8" SN & TIH on 80 jts. 2 3/8" EUE tbg. Set btm. of MA @ 2513'. PU 2" X 1 1/2" X 10' BHD M-M pump w/6' gas anchor & 2' pony rod on top & TIH on 98 - 5/8" sucker rods, 1 - 4' & 1 - 6' 5/8" pony, 1 1/4" X 16' polish rod w/1 1/2" X 6' hard faced liner. Seat pump ok. Clamp polish rod off. RDMO Gressel WS. Cost - 3250 tbg., 1500 rods, 1000 pump, 2000 pumping unit, 1000 motor, 225 supervision.

Daily cost - \$8,975

Cum. cost - \$60,700

10-31-94 MI & set Bethlehem D-40 pumping unit w/C-66 motor. 2:30 p.m. - POP. 4:30 p.m. - pumped up & pumping wtr. to pit.

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CONSERVATION DIVISION
WICHITA, KS

ALLIED CEMENTING COMPANY, INC.

913-483-2627

P. O. BOX 31

RUSSELL, KANSAS 67665

KRIC 10-94

ORIGINAL

To: Surfin Drilling Co.
250 W. Water, #300
Wichita, KS 67202

Invoice No. 6755
Purchase Order No. _____
Lease Name Lang #5
Date 10-10-94

Service and Materials as Follows:

Common 132 sks @ \$6.85	\$904.20	
Pozmix 88 sks @ \$3.00	264.00	
Col 4 sks @ \$9.00	36.00	
Chloride 7 sks @ \$25.00	<u>175.00</u>	\$1,379.20

Handling 220 sks @ \$1.00	220.00	
Mileage (60) @ \$.04 per sk per mi	528.00	
Surface	430.00	
1 plug	42.00	
Mi @ \$2.25 pmp trk chg	135.00	
56' @ \$.39 over 300'	<u>21.84</u>	<u>1,376.84</u>

*90218 003 w 0082 2756.04
(551.20)*

551.20

Total

\$2,756.04

2204.84

Thank You!

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1 1/2% Charged Thereafter

Handling / *00*

00

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CONSERVATION DIVISION
WICHITA, KS

Phone 913-483-2627, Russell, KS
 Phone 316-793-5861, Great Bend, KS

Phone 913-625-5516, Hays, KS
 Phone 913-672-3471, Oakley, KS

Phone 316-886-5926, Medicine Lodge, KS
 Phone 913-798-3843, Ness City, KS

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

7375

ORIGINAL

NEW

Date	10-10-94	Sec.	15	Twp.	21S	Range	34W	Called Out		On Location	4:15 PM	Job Start	7:10 PM	Finish	7:30 PM
Lease	LANG	Well No.	#5	Location	FRIEND 8W-3 1/2 N			County	FINNEY	State	KS				

Contractor	MURFIN DALL DRILL #3		
Type Job	SURFACE		
Hole Size	12 1/4	T.D.	357'
Csg.	8 5/8	Depth	356'
Tbg. Size		Depth	
Drill Pipe		Depth	
Tool		Depth	
Cement Left in Csg.		Shoe Joint	
Press Max.		Minimum	
Meas Line		Displace	21 3/4 OBL.
Perf.			

Owner	PETROLEUM PRODUCTION MANAGEMENT, INC.		
To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Charge To	MURFIN DRILL.		
Street	250 N WATER, ST. #300		
City	WICHITA	State	KAN 67202
The above was done to satisfaction and supervision of owner agent or contractor.			
Purchase Order No.	* Keith Barber		
CEMENT			
Amount Ordered	220 SKS 60/40 @ 2.39 CC 28 GEL		
Consisting of			
Common	132 SKS @ 6.85	904.20	
Poz. Mix	88 SKS @ 3.00	264.00	
Gel.	4 SKS @ 9.00	36.00	
Chloride	7 SKS @ 25.00	175.00	
Quickset			
Sales Tax			
Handling	1.00 per SK	220.00	
Mileage	4¢ per SK/mile	528.00	
	60 miles		
Sub Total		2,127.20	
Total			

EQUIPMENT

No.	Cementer	TERRY
Pumptrk 191	Helper	WAYNE
No.	Cementer	
Pumptrk	Helper	
	Driver	R. G.
Bulktrk 218		
Bulktrk	Driver	

DEPTH of Job

Reference:	PUMP TRUCK	430.00
	8 5/8 SURFACE PLUG	42.00
	2.25 PER MILE	135.00
	394 PER FT. @ 300'	21.84
	Sub Total	21.84
	Tax	
	Total	628.84

Remarks:

CEMENT DEO CIRC.

Floating Equipment

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 WICHITA, KS



JOB LOG HAL-2013-C

CUSTOMER 13120 Lemm Pore WELL NO. 007 1/2 19 1394 LEASE Lynn JOB TYPE 1 1/2 Pore Stnary TICKET NO. 635756

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0400							Time called
	0800							Time ready
	0745							Time on loc.
	1000							Start Pump casing
	1140							Casing in hole
	1141							Hook up to circulate casing
	1152							Circulate casing using Pump
	1153							Circulate Mud to Circulate level
	1230							Hook up to Pump Truck
	1235	5	40 ^{33%}			300		Start Salt Water Ahead
	1242		50 ^{33%}			300		Start Mud Flow
	1244		12 ^{33%}			300		Start Gel water Ahead of Cement
	1246	5.6				350		Start Mix Cement
	1246	/	202 ^B			200		Finish Pumping Cement
	1247	/				200		STJ Down 0
	1247							Deep Plug
	1247	5				150		Start Displacement
	1247	14.4 ^B	144.16					wash Pump lines
	1330					750		Plug Down Float Held
								Pump 15 ^{BPM} Total. Did not Pump no more.
								Reference Press 750 ^{PSE} Float Held
								Circulate Cement to the PIT 8 ^{BPM} 22 ^{SE}

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WICHITA, KS

Thanks For Calling
Halliburton
Energy
D. Green
Crew



HALLIBURTON ENERGY SERVICES

FORM 1906 R-13

CHARGE TO: Petroleum Production Mgt.
 ADDRESS:
 CITY, STATE, ZIP CODE:

COPY

TICKET

No.

635756 - 0

PAGE 1 OF

SERVICE LOCATIONS
 1. 25540 Liberal Ks
 2. 25535 Houston Ks
 3.
 4.
 REFERRAL LOCATION

WELL/PROJECT NO. 5#
 LEASE Lang
 COUNTY/PARISH Finney
 STATE Ks
 CITY/OFFSHORE LOCATION
 DATE 10-15-94
 OWNER Same

TICKET TYPE SERVICE
 SALES
 NITROGEN JOB? YES
 NO
 CONTRACTOR
 RIG NAME/NO. Mueser Dole
 SHIPPED VIA Loc
 DELIVERED TO
 ORDER NO.

WELL TYPE
 WELL CATEGORY
 WELL PERMIT NO.
 WELL LOCATION NW of Garden City Ks

WELL PURPOSE 035 4 1/2 Prod Stang.
 INVOICE INSTRUCTIONS 0203

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
<u>000-117</u>		<u>1</u>			<u>MILEAGE</u>	<u>186</u>		<u>miles</u>	<u>1</u>	<u>2.75</u>	<u>511.50</u>
<u>001-016</u>		<u>1</u>			<u>Pump charge</u>	<u>2.769</u>		<u>FT</u>			<u>1455.00</u>
<u>030-016</u>		<u>1</u>			<u>Sub Top Plug</u>	<u>1</u>		<u>End</u>	<u>4%</u>	<u>45.00</u>	<u>45.00</u>
<u>018-315</u>					<u>Mud. Flush</u>	<u>500</u>		<u>gal</u>		<u>.65</u>	<u>325.00</u>

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 CONSERVATION DIVISION
 WICHITA, KS
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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
X Ernest Boyle
 DATE SIGNED _____ TIME SIGNED _____

do do not require IPC (Instrument Protection). Not offered

SUB SURFACE SAFETY VALVE WAS:
 PULLED & RETURN PULLED RUN

TYPE LOCK _____ DEPTH _____
 BEAN SIZE _____ SPACERS _____
 TYPE OF EQUALIZING SUB. _____ CASING PRESSURE _____
 TUBING SIZE _____ TUBING PRESSURE _____ WELL DEPTH _____
 TREE CONNECTION _____ TYPE VALVE _____

SURVEY
 AGREE _____ UN-DECIDED _____ DIS-AGREE _____
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?
 WE UNDERSTOOD AND MET YOUR NEEDS?
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?
 ARE YOU SATISFIED WITH OUR SERVICE?
 YES NO
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 2336.50
 FROM CONTINUATION PAGE(S) 11702.39
 SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE

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) Ernest Boyle
 CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) X Ernest Boyle
 HALLIBURTON OPERATOR/ENGINEER Dennis Coyle EMP # 59179
 HALLIBURTON APPROVAL

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 _____ TWP _____ RNG _____ 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 _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		9.5	4 1/2	215	2729	
LINER						
TUBING						
OPEN HOLE				1	2760	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD	1	Howco
PACKER		
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 10-15	DATE 10-15	DATE 10-15	DATE 10-15
TIME 6:40	TIME 7:45	TIME 11:10	TIME 15:30

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
Deane	46075	L113500 Ks
59179		
R Eward	52958 / 7048	11
01311		
R Anderson	3625 / 7048	Houston Ks
09213		
J B... ..	30737 / 46-12	

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 Corrosion

DESCRIPTION OF JOB 4 1/2" Prod String

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

CUSTOMER REPRESENTATIVE X Corrosion Dept

HALLIBURTON OPERATOR D... .. COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	500	Premium	150T		2% CC 10% S/G. 1.2% TE	1.99	13.4
	100	Premium	EA 2		5% EA 4/10% Water 3% 15% SALT	1.40	15.3

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRES LUSH: BBL.-GAL. 4500 TIME 17:13 PAD: BBL.-GAL. _____

BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL.-GAL. _____

AVERAGE _____ FRACTURE GRADIENT _____ CEMENT BBL.-GAL. _____ DISPL: BBL.-GAL. 114.16

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL.-GAL. 302.13

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. _____

ORDERED _____ AVAILABLE _____ USED _____

TREATING _____ DISPL. _____ OVERALL _____

FEET 113 REASON Shut-in

CEMENT LEFT IN PIPE _____

REMARKS _____

DEC 22 1994

CONSERVATION DIVISION WICHITA, KS

CUSTOMER: Oil Well Production
WELL NO: 5#
JOB TYPE: 4 1/2" Prod String
DATE: 10-15-94

**HALLIBURTON****HALLIBURTON ENERGY SERVICES****TICKET CONTINUATION****DUNCAN COPY**

DC 62

TICKET

No. 635756

FORM 1911 R-10

CUSTOMER

PPMI

WELL

Lena

DATE

10-15-94

PAGE

2

OF

2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF		U/M	U/M			
500-043	516.00272				Premium Cement	100	sk	10 61	1061 00	
504-118					Halliburton Light Cement	500	sk	9 61	4805 00	
504-043	516.00272					325				
506-105	516.00286					12950	LB			
506-121	516.00259					26				
509-406	890.50812				Calcium Chloride	9	sk	36 75	330 75	
508-291	516.00337				Gilsonite 10#W/500	5000	LB	40	2000 00	
507-775	516.00144				Halad-322 6/10%W/100	59	LB	7 00	413 00	
509-968	516.00315				Granulated Salt 15%W/100	837	LB	15	125 55	
508-127	890.50131				EA-2 5%W/100	5	sk	25 90	129 50	
509-968	516.00158				Granulated Salt	400	LB	15	60 00	
RECEIVED KANSAS CORPORATION COMMISSION CONSERVATION DIVISION WICHITA, KS DEC 22 1994					SERVICE CHARGE	CUBIC FEET		736	1 35	993 60
500-207					MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	TON MILES	95	1783 99
500-306						62,596	60	1877.88		

ORIGINAL

No. B 263018

CONTINUATION TOTAL

11702.39