

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. _____

9-3-94 9-7-94 9-8-94
Spud Date Date Reached TD Completion Date

API NO. 15- 055-21330 ²¹³³⁰

ORIGINAL

County Finney

 - - C - NW Sec. 26 Twp. 21S Rge. 34W E
 W

3960 Feet from S/N (circle one) Line of Section

3960 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 S.W. Maune Well # 5

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 2944' KB 2949'

Total Depth 2735' PBTB 2666'

Amount of Surface Pipe Set and Cemented at 8 jts. @ 351 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 2749' 2735'

feet depth to surface w/ 700 600 sx cmt.

Drilling Fluid Management Plan ALT II (2-29-95) SK
(Data must be collected from the Reserve Pit)

Chloride content 30,000 ppm Fluid volume 4350 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

AMENDED TO ADD IP, CORRECT ALT II INFO

K.C.C. OFFICE USE ONLY		
F	<input type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input checked="" type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug
		<input type="checkbox"/> NGPA
		<input type="checkbox"/> Other
		(Specify)

Form ACO-1 (7-91)



RECEIVED
STATE CORPORATION COMMISSION

MAY 22 1995

CONSERVATION DIVISION
WICHITA, KANSAS

SIDE TWO

Operator Name Petroleum Production Management, Inc. Lease Name S.W. Maune Well # 5

Sec. 26 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 CSNG
 CNCD-GR-caliper
 HRI
 Cement Bond-MSG-CCL

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Name	Top	Datum
B/Stone Corral	2033'	+916
Herrington	2471'	+478
Krider	2501'	+448
Winfield	2553'	+396
Towanda	2622'	+327
Fort Riley	2674'	+275

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"	28#	351'	60/40 poz.	200	3% CC
Production	7 7/8"	4 1/2"	9 1/2#	2749'	HLC	500	2% CC, 10% gil/sx
					prem. EA2	100	5% calseal, .6%

ADDITIONAL CEMENTING/SQUEEZE RECORD Halad 322.15% salt, circ. 45 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				

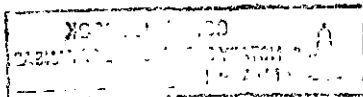
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth
4	2626-38' - Towanda	2000 gal. 15% FE acid each zone (total
4	2554-68' - Winfield	6000 gal. acid), frac perms w/882 bbl.
4	2504-24' - Krider	Boragel & 73,600# 12-20 mesh sand

TUBING RECORD		Size	Set At	Packer At	Liner Run			
		2 3/8"	2465'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First, Resumed Production, SWD or Inj. 1-17-95				Producing Method <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		59		20	NA	

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

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled

Production Interval Other (Specify) _____



DAILY WELL RECORD

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CONSERVATION DIVISION
WICHITA, KS

API# 15-055-21330-0000

POOL Hugoton

Lease No. KS-5510805-0

WC

AFE No. 94026

ORIGINAL

LEASE: S.W. Maune #5

LOCATION: C NW Sec. 26-21S-34W

ELEVATION: 2944' GR; 2949' 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 S.W. Maune #4 - C SW Sec. 26

FORMATION TOPS	SAMPLE TOPS	LOG TOPS	
B/Stone Corral	2033' +916 (-4)		MIRT 9-3-94
Herrington	2475' +474 (+1)	2471' +478	SPUD 6:30 P.M. 9-3-94
Krider	2504' +445 (+2)	2501' +448	SURFACE 8 jts. 8 5/8" set @ 351'
Winfield	2555' +394 (-4)	2553' +396	w/200 sx. 60/40 poz. 3% CaCl 2%
Towanda	2621' +328 (+1)	2622' +327	gel.
Fort Riley	2680' +269 (-4)	2674' +275	REMARKS Cement did circ to surf.
RTD	2735' +214	2730' +226	

- 9-3-94 MIRT. Spud @ 6:30 p.m. w/12 1/4" bit.
- 9-4-94 Set 8 5/8" @ 351' w/200 sx. 60/40 poz. w/3% CaCl - 2% gel. Plug dn. @ 3:00 a.m. Drilled out @ 3:00 p.m. Dev. 1/8° @ 351'.
- 9-5-94 Drilling @ 1520'. Dev. 1/4° @ 848'.
- 9-6-94 Drilling @ 2532'. Circ. for DST #1 2479-2532' (Krider). Dev. 3/4° @ 2532'. Vis. - 50. MW - 9.3. Wtr. loss 13.2 cc.
DST #1 - 2479-2532' (Krider) Open 60, SI 60, Open 60, SI 60. 1st open - strong blow immediately. GTS in 10 min. 60 min. - 75.1 MCF thru 3/4" choke. 2nd open - GTS immediately. 60 min. - 113 MCF thru 1" choke. Rec. 130' GCM. IFP-42-42. ISIP 106#. FFP-53-53. FSIP 106#. Temp. 106°. Drilling ahead.
- 9-7-94
3:30 a.m. RTD 2596'. Vis. - 42. MW - 9.5. Wtr. loss 6.0. Chlorides 30,000.
DST #2 - 2557-96' (Winfield) Open 60, SI 60, Open 60, SI 60. 1st open - strong blow immediately. GTS - 7 min. 60 min. - 155 MCF thru 1" choke. 2nd open - gas immediately. 60 min. - 170 MCF thru 1 1/4" choke. Rec. 70' GCM. IFP-53-53. ISIP 127#. FFP-53-53. FSIP 144#. Temp. 107°. Drilling ahead.
- 7:30 a.m. RTD 2665'. Running DST #3 - 2625-65' (Towanda).
DST #3 - 2625-65' (Towanda) Open 90, SI 60, Open 60, SI 90. 1st open - weak increasing to strong blow off btm. of bucket in 15 min. GTS in 110 min. 2nd open - GTS immediately. Stab. @ 5 MCF. Rec. 70' GCM. IFP-42-42. ISIP 266#. FFP-57-57. FSIP 277#. Temp. 107°. Drilling ahead.

ORIGINAL

Page 2 - Petroleum Production Management, Inc. - S.W. Maune #5

9-8-94

12:00 a.m Drill pipe on bank. RU Halliburton Wireline Services to log. Ran dual laterolog-micro laterolog-MSFL, CNCD-GR caliper, GR spectrolog. Detail from RTD to 2400'. Ran experimental prox-mini log & HRI (high resolution induction).

6:00 a.m. Logging complete. TIH w/drill pipe & condition hole to run prod. csg.

9:00 a.m. Start laying dn. drill pipe.

12:00 p.m Drill pipe layed dn. - prepare to run prod. csg.

1:00 p.m. Install Guide shoe & TIH w/79 jts. 4 1/2" X 10 1/2# used - tested to 4000# - 8 RD csg. Install insert float valve in 1st collar. Ran 12 centralizers. Ran 2 cement baskets - 1 @ 2050' & 1 @ 1250'. Wash 3' fill off btm. to RTD 2735'. Circ. 30 min. Set 4 1/2" csg. 1' off btm. @ 2734'. RU Halliburton & pump 40 bbl. - 3% salt wtr. Pump 500 gal. mud flush - mix 2 sx. gel - mix & pump 500 sx. HLC w/2% CaCl - 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. 650#. Circ. 45 sx. cmt. to pit. Had full circulation thruout job.

4:30 p.m. Bump plug - pressure to 1000#. Held 3 min. - ok. Rel. press. - float holding ok. Transfer csg. to bradenhead slips. RDMO Halliburton - zero point 7' ABH. Job complete. Release rig.

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DEC 22 1994

CONSERVATION DIVISION
WICHITA, KS

PETROLEUM PRODUCTION MANAGEMENT, INC.

WELL REPORT

X Completion
 _____ Workover

ORIGINAL

POOL Hugoton LEASE # KS-5510805-0
 API# 15-055-21334 AFE # 94026
 LEASE S.W. Maune #5 Sec. 26 Twp. 21S Rge. 34W Spot C NW
 ZERO POINT 7' ABH ELEV. 2944 GR 2949 KB CO. Finney STATE Kansas
 OPERATOR Petroleum Production Management, Inc. RTD 2735' LTD 2730' PBTD _____

CONTRACTOR Gressel WS CSG. SIZE & DEPTH SET 8 5/8" @ 351' 4 1/2" @ 2734' 23# WT. 10 1/2#

NEW OIL WELL _____ Perfs. _____ Zone _____
 NEW GAS WELL X Perfs. 2504-24' - 4 JSPF Zone Krider
 Perfs. 2554-68' - 4 JSPF Zone Winfield
 Perfs. 2626-38' - 4 JSPF Zone Towanda
 B.P. _____

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

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 WICHITA, KS

REMARKS: _____

REPORT

9-26-94 MIRU Gressel WS. PU 4 1/2" csg. scraper & TIH on 85 jts. 2 3/8" EUE tbg. Sat dn. & tag up @ 2669'. POOH w/tbg. & scraper. Swab dn. csg. to 1600' w/csg. swab. RU HLS Wireline & TIH w/bond-GR-CCL tool. LTD 2662' & log from TD-2000' & from 1600'-1000'. POOH & lay dn. bond log tool. Bond log indicates excellent bonding thruout Chase int. SDFN @ 4:30 p.m. Cost - 1000 rig, 500 scraper, 450 supervision. Daily cost - \$1,950

9-27-94 HLS Wireline Service PU 3 3/8" expendable hollow carrier jet csg. gun & TIH. Perf 4 1/2" csg as follows:
 Krider 2504 to 2524' - 4 JSPF - total 80 shots
 Winfield 2554 to 2568' - 4 JSPF - total 56 shots
 Towanda 2626 to 2638' - 4 JSPF - total 48 shots

POOH & lay dn. gun. PU Halliburton 4 1/2" RBP & RTTS pkr. & TIH on 2 3/8" EUE tbg. Set RBP on btm. @ 2650'. PU pkr. to 2615'. RU Halliburton & pump 2000 gal. 15% FE acid to pkr. Set pkr. @ 2615' & treat Towanda perfs @ 400#. Flush acid w/500 gal. treated wtr. w/clay fix II. ISIP 219#. 1 min. vac. Release pkr., lower tbg. PU RBP & pull RBP to 2600' & set RBP. PU RTTS to 2535' & set to treat Winfield. Pump 2000 gal. 15% FE acid & flush w/500 gal. treated wtr. Load hole & press. to 1400# - broke to 1150# - broke to 330#. Pump acid & flush @ 2.4 BPM @ 240#. ISIP 119#. 10 sec. vac. Release pkr., lower tbg. Latch on & release RBP. PU RBP to 2535' & set. PU RTTS to 2489' & set to treat Krider. Pump 2000 gal. 15% FE acid & flush w/500 gal. treated wtr. Load hole & press. to 1350# - formation broke to 350#. Treat Krider perfs @ 2.3 BPM @ 250#. ISIP 78#. 10 sec. vac. Total pumped - 6000 gal. 15% FE acid & 2000 gal. flush - total 190 bbl. Release RTTS & lower tbg. Latch on to RBP & release. POOH w/tbg. & tools. Lay dn. RTTS & RBP & shut well in for night. Cost - 8950 Hal., 1000 rig, 5100 HLS, 450 supervision. Daily cost - \$15,500 Cum. cost - \$17,450

9-28-94 MIRU Halliburton equipment to frac. 5:00 p.m. - Mix & pump 37,044 gal. (882 bbl.) treated Boragel G3195 frac fluid dn. 4 1/2" csg. containing 100,600# 12-20 mesh brown sand. Min. 2# per gal. - max. 8# per gal. as per Halliburton recommendation. Lack 27,000# total sand planned to be pumped because belt on mountain mover locked up & cut sand off early into last stage of 8 PPG sand. Tagged all sand w/R.A. material. Frac @ 40 BPM - max. psi 650 - avg. PSI 500#. ISIP 79#. 15 min. 50#. RDMO Halliburton. Shut well in for night @ 6:00 p.m. Cost - 30,000 Hal., 1000 rig, 450 supervision.
Daily cost - \$31,450

ORIGINAL Cum. cost - \$48,900

9-29-94 Csg. on vac. RU HLS Wireline & PU GR-spectral log tool & TIH. LTD 2618' - 8' above Towanda top of perfs. Order out sand pump. Halliburton log from 2618-2400'. Log indicates frac stayed within perf'd intervals. POOH w/tool. PU sand pump. Pump sand to 2643'. Rec. all sloppy cmt. on last run. Lay dn. sand pump. PU logging tool & TIH. Log TD 2643' & log to 2400'. Made 4 total runs & POOH. Lay dn. tool & RDMO HLS. TIH w/sand pump to pump additional sand & cmt. Clean out if possible. Sand pumped to 2666' or 23 additional ft. Had solid btm. SDFN. Cost - 1700 Hal., 1000 rig, 1000 tools, 450 supervision.
Daily cost - \$4,150

Cum. cost - \$53,050

9-30-94 SICP 130#. Ran sand pump - no additional rec. PU 15' MA - perf'd in top 2', 1' - 2 3/8" SN & TIH on 78 jts. 2 3/8" EUE tbg. Set btm. of tbg. @ 2465' GL = 200' off btm. or 38' above top csg. perfs. PU 2" X 1 1/2" X 10' RWP pump w/8' - 1" gas anchor & 2' pony on top of pump. TIH w/96 - 5/8" used sucker rods, 1 - 4' & 2 - 6' pony rods & 16' - 1 1/4" polish rod w/1 1/2" X 5' hard faced liner. Seat pump ok. Space pump out & clamped off well @ 1:30 p.m. RDMO Gressel WS. WO pumping unit installation. Cost - 600 rig, 450 supervision.
Daily cost - \$1,050

Cum. cost - \$54,100

10-3-94 SICP 130#. Moved in Bethlehem D-40 pumping unit purchased from Watkins Supply. Set pumping unit & HOB. Install Continental C-66 engine from Lang #4 gas well. 5:00 p.m. - start engine & put well to pump.

10-4-94 SICP 240#. Pumping very little water to pit. Tbg. would unload & pump small amount of fluid.

10-5-94 SICP 200#. Pump small amount of wtr. - est. 1 bbl.

10-6-94 SICP 200#. Install line from csg. to pit. Start blowing dn. csg. to 50# FCP. Start pumping small mist fluid out tbg. for 10 min. & then no fluid out tbg. Gas off csg. dry.

10-7-94 FCP 50#. Flowed well overnight - no fluid out csg. or tbg. Shut csg. in. Well is ready for gas sales line.

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KANSAS CORPORATION COMMISSION

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CONSERVATION DIVISION
WICHITA, KS

KCC

4-27-94

TELEPHONE:
AREA CODE 913 483-2627

ALLIED CEMENTING COMPANY, INC.
P. O. BOX 31
RUSSELL, KANSAS 67665

ORIGINAL

TO: Murfin Drilling Company
250 N. Water #300
Wichita, Kansas 67202

INVOICE NO. 67229
PURCHASE ORDER NO. _____
LEASE NAME SW Maime #5
DATE Sept. 3, 1994

SERVICE AND MATERIALS AS FOLLOWS:

Common 120 sks @\$6.85	\$ 822.00	
Pozmix 80 sks @\$3.00	240.00	
Gel 4 sks @\$9.00	36.00	
Chloride 7 sks @\$25.00	175.00	\$ 1,273.00
Handling 200 sks @\$1.00	200.00	
Mileage (60) @\$0.04¢ per sk per mi	480.00	
Surface	430.00	
51' @\$0.39¢ over 300'	19.81	
1 plug	42.00	
Ni @\$2.25 pmp. trk.	135.00	<u>1,306.81</u>

Total \$ 2,579.81
515.96
2063.85

Handwritten: 90218 003 w 0059 2579.81 Cement S. By. (515.96)
THANK YOU
7063.85

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1½% Charged Thereafter.

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CONSERVATION DIVISION
WICHITA, KS

73-483-2627, Russell, KS
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.

7379

Home Office P. O. Box 31

Russell, Kansas 67665

Date	9-3-94	Sec.	26	Twp.	21	Range	34	Called Out		On Location	9:00 PM	Job Start		Finish	9-4-94 3:00 AM
Lease	S.W. Masne	Well No.	15	Location	Friend 7U-4S-14E			County	Finney	State	Kan				
Contractor	MurFin Drly Co #3			Owner Petroleum Production Management, Inc											
Type Job	Surface			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.											
Hole Size	12 1/4	T.D.	351'												
Csg.	18 5/8	Depth	351'												
Tbg. Size		Depth													
Drill Pipe		Depth													
Tool		Depth													
Cement Left in Csg.	15'	Shoe Joint	ORIGINAL												
Press Max.		Minimum													
Meas Line		Displace	✓												
Perf.															

EQUIPMENT

Pumptrk	No.	Cementer	Walt Terry
	300	Helper	
Pumptrk	No.	Cementer	Wayne
	218	Helper	
Bulktrk	Driver		
Bulktrk	Driver		

DEPTH of Job

Reference:	Pumptruck	430 ⁰⁰
	8 5/8 Surface Plus	42 ⁰⁰
	225 per mile	135 ⁰⁰
	394 ps ft to 300'	1981
	Sub Total	
	Tax	
	Total	626 ⁸¹

Remarks:

Cement in Cellar

Charge To	MurFin Drly Co
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.	
X	Kurt Van Pelt
CEMENT	
Amount Ordered	200.3 SKS 6940 per 3% CC - 2% Gel
Consisting of	
Common	120 SKS @ 6.85 = 822 ⁰⁰
Poz. Mix	80 SKS @ 3.00 = 240 ⁰⁰
Gel.	4 SKS @ 9.00 = 36 ⁰⁰
Chloride	7 SKS @ 2.50 = 175 ⁰⁰
Quickset	
Sales Tax	
Handling	1.00 per SK = 200 ⁰⁰
Mileage	4¢ per SK mile = 480 ⁰⁰
60 miles	
Sub Total	
Total	
1,953 ⁰⁰	

Floating Equipment

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CONSERVATION DIVISION
WICHITA, KS

[Signature]



JOB SUMMARY

HALLIBURTON DIVISION Maintenance
 HALLIBURTON LOCATION 11001

BILLED ON TICKET NO. 11001

WELL DATA

FIELD _____ SEC. 21 TWP. 10S RNG. 2000 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	<u>U</u>	<u>110</u>	<u>4 1/2</u>	<u>KR</u>	<u>1100</u>	
LINER						
TUBING						
OPEN HOLE						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		
PACKER		
OTHER		

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>7-8</u>	DATE <u>7-8</u>	DATE <u>7-8</u>	DATE <u>7-8</u>
TIME <u>11</u>	TIME <u>11</u>	TIME <u>11:45</u>	TIME <u>11:45</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>Ron Crist</u>	<u>3</u>	<u>1100</u>
<u>D 7153</u>	<u>1</u>	
<u>Tom Brouder</u>	<u>2</u>	
<u>D 1100</u>	<u>1</u>	
<u>Mark House</u>	<u>3011</u>	<u>1100</u>
<u>F 7343</u>	<u>1</u>	
<u>Chris Goodson</u>	<u>5833</u>	
<u>G 2567</u>	<u>1</u>	

MATERIALS

TREAT FLUID _____ DENSITY _____ LB/GAL. °API

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

PROP. TYPE _____ SIZE _____ LB

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 _____ IN

PERFAC BALLS TYPE _____ GAL-LB _____ IN

OTHER _____

OTHER _____

DEPARTMENT Cement

DESCRIPTION OF JOB Cement 7 Perfor 7

JOB DONE THRU: TUBING CASING ANNULUS TBG ANN

CUSTOMER REPRESENTATIVE X Crist

HALLIBURTON OPERATOR Ron Crist COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU. FT./SK	MIXED LBS./GAL
	<u>600</u>	<u>1100</u>		<u>1</u>	<u>1100</u>	<u>1.9</u>	

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL.-GAL. _____

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

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL. BBL.-GAL. _____

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

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

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET _____ REASON _____

REMARKS

CUSTOMER Pat. 1100 PLEASE S. U. N. 1100 WELL NO. _____ JOB TYPE _____ DATE _____

JOB LOG HAL-2013-C

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Pet. Prod. Martine		5		S W. MAINE		LONG STRING		631968	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	0900								Called out Ready Now
	1130								on Location Laying down Pipe
1730	1530								Hook To Circulate
	1450								Circulating Top IT
	1510								Hook To Track
	1530	4	40						0-200 Pump KCl Water
	1530	4	20						250-250 Pump Mud flush - Let to top
	1535	6	177						250-70 Pump Lead Cement 12.7 PPG
	1605	6	25						70-110 Pump Tail Cement 15.2 "
	1610		-						- Shut Down Break plug
	1617	6	37						0-550 Pump Displacement
	1623	1	5						550-660 Slow Rate
	1630								660-1000 Land Plug Float Held
									Job Ended
									Note: Plugged Rat hole with 2 concrete sand slurry
									ORIGINAL
									Thank you for calling Halliburton Energy
									RECEIVED KANSAS CORPORATION COMMISSION
									DEC 22 1994
									CONSERVATION DIVISION WICHITA, KS



CHARGE TO: *Production Prod. Maint. - Tank*
 ADDRESS: *200 Sutter Place Building*
 CITY, STATE, ZIP CODE: *Wichita KS 67202*

COPY

TICKET

No.

634968 - 4

PAGE 1 OF 2

FORM 1906 R-13

SERVICE LOCATIONS 1. <i>Liberal</i>	WELL/PROJECT NO. <i>5</i>	LEASE <i>S.W. Maune</i>	COUNTY/PARISH <i>Finney</i>	STATE <i>Ks</i>	CITY/OFFSHORE LOCATION	DATE <i>9-8-94</i>	OWNER
2. <i>Hugoton</i>	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <i>Murphy</i>	RIG NAME/NO. <i>3</i>	SHIPPED VIA	DELIVERED TO <i>Local Nat Garden City</i>	ORDER NO.
3.	WELL TYPE <i>02</i>	WELL CATEGORY <i>01</i>	JOB PURPOSE <i>035</i>	WELL PERMIT NO.	WELL LOCATION <i>24-715-246</i>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
<i>000-117</i>		<i>1</i>			<i>MILEAGE</i>	<i>75</i>	<i>mi</i>	<i>1</i>		<i>2.75</i>	<i>412.50</i>
<i>001-016</i>		<i>1</i>			<i>Pump Charge</i>	<i>2734</i>	<i>ft</i>	<i>6</i>	<i>Hrs</i>		<i>1455.00</i>
<i>018-315</i>		<i>1</i>			<i>Mud Flush</i>	<i>600</i>	<i>gal</i>			<i>.65</i>	<i>325.00</i>
<i>570-418</i>		<i>1</i>			<i>5.000 in. Plug - 1"</i>	<i>4 1/2</i>	<i>in</i>	<i>1</i>	<i>ea</i>		<i>55.00</i>

ORIGINAL

RECEIVED
 KANSAS CORPORATION
 DEC 22 1994
 CONSERVATION DIVISION
 WICHITA, KS

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.				SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN				SURVEY			PAGE TOTAL	
CUSTOMER OR CUSTOMER'S AGENT SIGNATURE X				TYPE LOCK		DEPTH		OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			2247.50	
DATE SIGNED				BEAN SIZE		SPACERS		WE UNDERSTOOD AND MET YOUR NEEDS?			FROM CONTINUATION PAGE(S)	
TIME SIGNED				TYPE OF EQUALIZING SUB.		CASING PRESSURE		OUR SERVICE WAS PERFORMED WITHOUT DELAY?			12153.05	
<input type="checkbox"/> A.M. <input type="checkbox"/> P.M.				TUBING SIZE		TUBING PRESSURE		WELL DEPTH		WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?		
<input type="checkbox"/> do <input type="checkbox"/> do not require IPC (Instrument Protection). <input type="checkbox"/> Not offered				TREE CONNECTION		TYPE VALVE		ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO			SUB-TOTAL	
								<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			14400.55	
											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) <i>Ernie...</i>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <i>[Signature]</i>	HALLIBURTON OPERATOR/ENGINEER <i>Ronald C Crist</i>	EMP #	HALLIBURTON APPROVAL <i>[Signature]</i>
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DISCOUNT - 4000.00
1/10, 400.55

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.