

ORIGINAL

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. \_\_\_\_\_

9-25-94 9-29-94 9-30-94  
Spud Date Date Reached TD Completion Date

API No. 15- 055-21334-0000

County Finney

       -        - C - NW Sec. 22 Twp. 21S Rge. 34W X W

3960 Feet from SN (circle one) Line of Section

~~3960~~ 3960 Feet from EW (circle one) Line of Section

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

Lease Name Lang Well # 6

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 2965' KB 2970'

Total Depth 2750' PBTB 2704'

Amount of Surface Pipe Set and Cemented at 8 its. @ 361 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from 2749'

feet depth to surface w/ 720 sx cmt.

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

Chloride content 51.000 ppm Fluid volume 4300 bbis

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 12-22-94

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)

RECEIVED  
KANSAS CORPORATION COMMISSION

Form ACO-1 (7-91)

AMENDED TO ADD IP, CORRECT ALT II INFO

MAY 22 1995

CONNIE L. CROOK  
NOTARY PUBLIC - STATE OF KANSAS  
My Appt. Exp. 12-12-96

CONSERVATION DIVISION  
WICHITA, KS

PI

SIDE TWO

Operator Name Petroleum Production Management, Inc. Lease Name Lang Well # 6

Sec. 22 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  
 CNC-D-GR-caliper  
 Complex Lith. Analysis  
 Cement Bond-MSG-CCL  
 Tracer Scan

Name	Top	Datum
B/Stone Corral	2063'	+907
Herrington	2504'	+466
Krider	2541'	+429
Winfield	2579'	+391
Towanda	2641'	+329
Fort Riley	2696'	+274

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#	361'	60/40 poz.	220	3% CC, 2% gel
Production	7 7/8"	4 1/2"	9 1/2#	2749'	HLC	500	2% CC, 10# gil/sx
					prem EA2	100	5% calseal, .6%

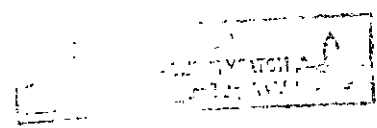
ADDITIONAL CEMENTING/SQUEEZE RECORD Halad 322, 15% salt, Circ. 62 sx. to pit.

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	2650-80' - Towanda	2000 gal. 15% FE acid each zone(total
4	2602-08', 2630-36' - Winfield	6000 gal.) frac perms w/952 bbis.
4	2542-52' - Krider	Boragel & 127,700# 10-20 mesh sand

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8"	2511'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
2-4-95				
Estimated Production Per 24 Hours	Oil Bbls. 0	Gas Mcf 73	Water Bbls. 25	Gas-Oil Ratio NA Gravity

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



DAILY WELL RECORD

ORIGINAL

POOL Hugoton API NO. 15-055-21334.0000  
 WC \_\_\_\_\_ AFE NO. \_\_\_\_\_  
 LEASE: Lang Gas Unit #6 Sec. 22 Twp. 21S Rge. 34W Spot C NW  
 LOCATION: 3960 FSL, 3060 FEL Sec. 22-21S-34W  
 ELEVATION: 2965 GR 2970 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 #4

FORMATION TOPS	SAMPLE TOPS	LOG TOPS	MIRT 9-25-94
B/Stone Corral	2063 +907 (-2)	2063 +907	SPUD 2:30 p.m. 9-25-94
Herrington	2505 +464 (-1)	2504 +466	SURFACE 8 jts. 8 5/8" @ 361
Krider	2536 +434 (-3)	2541 +429	w/220 sx. 60/40 poz. 3%
Winfield	2578 +393 (+4)	2579 +391	CaCl 2% gel.
Towanda	2646 +324 (+1)	2641 +329	REMARKS
Fort Riley	2696 +274 (+3)	2696 +274	RECEIVED KANSAS CORPORATION COMMISSION
RTD	2750 +240	2750 +240	DEC 22 1994

<u>DATE</u>	<u>REPORT</u>	<u>CONSERVATION DIVISION</u> <u>WICHITA, KS</u>
9-25-94	MIRT. Spud w/12 1/4" bit @ 2:30 p.m. Set 8 jts. 8 5/8" @ 361 w/220 sx. 60/40 poz. 3% CaCl 2% gel. Circ. 5 bbls. cmt. to surface. Plug dn. @ 8:30 p.m. 9-25-94. Drilled out @ 8:30 a.m. 9-26-94.	
9-26-94	Dev. 1/2° @ 361. Drilling ahead.	
9-27-94 7:00 a.m.	Dev. 1/2° @ 846', 3/4° @ 1370'. MW - 9.0. Vis. - 35. Drilling @ 1980'.	
9-28-94 12:00 a.m. 8:30 a.m.	Dev. 3/4° @ 2410. MW - 9.3. Vis. 47. Wtr. loss 15.2 cc. Chlorides 5100. RTD @ 2560'. Condition hole for DST #1 2510-60' (Krider). DST #1 - 2510-60' (Krider) Open 60, SI 60, Open 60, SI 60. 1st open - strong blow in 8 min. GTS - 30 min. 9 MCF thru 1/4" choke. 2nd open - GTS immed. Gauge & stab. @ 38 MCF thru 1/2" choke. Rec. 80' sli. GCM. IFP-80-84. ISIP 450#. FFP-86-86. FSIP 450#. Temp. 107#.	
2:00 p.m. 4:00 p.m. 5:00 p.m.	TIH w/drill pipe. RTD 2620'. Condition hole for DST #2 2583-2620' (Winfield). On btm. for DST #2	
9-29-94	MW - 9.3. Vis. 43. Wtr. loss 16.00 cc. Chlorides 4750.	

9-29-94

2:00 a.m.

DST #2 - 2583-2620' (Winfield) Open 90, SI 60, Open 90, SI 90. 1st open - weak blow, build to strong off btm. of bucket in 64 min. 2nd open - strong blow. GTS 30 min. Stab. @ 2 MCF thru 1/4" choke. Rec. 70' sli. GCM. IFP-30-36. ISIP 450#. FFP-50-52. FSIP 450#. Temp. 107#.

8:00 a.m.

RTD 2685'. POOH to test Towanda.

12:00 p.m.

On btm. to test.

DST #3 - 2650-2685' (Towanda) Open 60, SI 60, Open 60, SI 60. 1st open - strong blow immediately. GTS 20 min. Stab. @ 83 MCF. 2nd open - gas immediately. Stab. @ 121 MCF. Rec. 90' GCM. IFP-30-60. ISIP 460#. FFP-50-70. FSIP 460#. Temp. 107°.

8:30 p.m.

RTD 2750'. Conditioning hole to log.

9:30 p.m.

Pulling drill pipe to log.

9-30-94

Dev. 3/4° @ 2750'. MW - 9.3. Vis. 45. Wtr. loss 12.00 cc. Chlorides 4600.

4:30 a.m.

Logging complete. Halliburton Wireline ran DLL-MSFL & CND-GR-caliper. LTD 2750'.

5:30 a.m.

Condition hole to run csg.

6:00 a.m.

Start laying dn. drill pipe.

7:40 a.m.

Drill pipe layed dn. Disconnect BOP & lines.

9:00 a.m.

Ready to run prod. csg.

9:15 a.m.

Install guide shoe on shoe jt. & PU 44' 4 1/2" shoe jt. & install insert float in 1st collar. TIH w/85 jts. 4 1/2" 9 1/2# used - tested to 4000# 8 RD csg. Ran 10 centralizers. Ran 2 cement baskets - 1 @ approx. 2190' & 1 @ approx. 1285'.

10:45 a.m.

Tag up on btm @ 2750'. Set csg. 1' off btm. @ 2749'. RU Halliburton to cmt. 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. 500#. Had full circulation thruout job. Circ. 62 sx. cmt. to pit. Plug dn. @ 2705' - pressure csg. to 1000#. Held ok for 4 min. Release press. - float holding ok. Transfer csg. to bradenhead slips. RDMO Halliburton. Release rig - zero point 7' ABH.

12:44 p.m.

RECEIVED  
KANSAS CORPORATION COMMISSION

DEC 22 1994

CONSERVATION DIVISION  
WICHITA, KS

WELL REPORT

  X   Completion  
       Workover

POOL \_\_\_\_\_ LEASE # \_\_\_\_\_

API# 15-055-21334 AFE # \_\_\_\_\_

LEASE Lang #6 \_\_\_\_\_ Sec. 22 Twp. 21S Rge. 34W Spot C NW

ZERO POINT 7' ABH ELEV. 2965 GR KB CO. Finney STATE Kansas

OPERATOR Petroleum Production Management, Inc. RTD 2750 LTD 2750 PBTD \_\_\_\_\_

CONTRACTOR Gressel Well Service CSG. SIZE & DEPTH SET 8 5/8" @ 361' WT. 23#  
4 1/2" @ 2749'

NEW OIL WELL \_\_\_\_\_ Perfs. \_\_\_\_\_ Zone \_\_\_\_\_

NEW GAS WELL   X   Perfs. 2542-52' Zone Krider  
 Perfs. 2602-08' & 2630-36' Zone Winfield  
 Perfs. 2650-80' Zone Towanda  
 B.P. \_\_\_\_\_

OLD OIL WELL \_\_\_\_\_ Perfs. \_\_\_\_\_ Zone \_\_\_\_\_

OLD GAS WELL \_\_\_\_\_ Perfs. \_\_\_\_\_ Zone \_\_\_\_\_

B.P. \_\_\_\_\_ DEC 22 1994

REMARKS: \_\_\_\_\_

RECEIVED  
 KANSAS CORPORATION COMMISSION

REPORT

10-28-94 MIRU Gressel WS. PU 4 1/2" csg. scraper w/blade bit on btm. & TIH on 86 jts. 2 3/8" EUE tbg. Tagged up @ PBTD 2705'. PU 1 jt. tbg. & SD for weekend. Cost - 600 rig, 200 scraper & bit, 225 supervision. Daily cost - \$1,025

10-29-94 SD for weekend.

10-30-94 SD for weekend.

10-31-94 POOH w/tbg., scraper & blade bit. Lay dn. blade bit & scraper. RU HLS. PU GR-CCL-bond log tool & TIH. LTD 2701'. Log from 2701' to 2000' and from 1600' to 1000'. POOH w/logging tool. Lay dn. logging tool & PU 3 3/8" csg. gun dressed w/4 SPF - 32 gram charge & TIH. Tie into collars & perf as follows:

2650-80'	Towanda	total 120 holes
2630-36' & 2602-08'	Winfield	total 48 holes
2542-52'	Krider	total 40 holes

POOH w/gun. All shots fired. RDMO HLS. SDFN. Cost - 6500 Hal, 1000 rig, 450 supervision. Daily cost - \$7,950 Cum. cost - \$8,975

11-1-94 SICP 30#. PU Halliburton RBP & RTTS pkr. & TIH on 2 3/8" EUE tbg. Set RBP @ 2687'. PU pkr. & set @ 2639'. Acidized Towanda perfs w/2000 gal. 15% FE-NE acid @ max. press. 350# & treat zone @ 2.9 BPM @ 340#. ISIP 257#. Release pkr. & lower pkr. to RBP & PU RBP to 2639' & set. PU pkr. to 2579' & set. Acidize Winfield - 2 sets of perfs - w/2000 gal. 15% FE-NE acid @ 372# max. press. & treat zone @ 2.8 BPM @ 340#. ISIP 283#. Release pkr. & lower to RBP & raise RBP to 2579' & set.

11-1-94 Cont.

Raise pkr. to 2530' & set. Acidize Krider perfs w/2000 gal. 15% FE-NE acid @ max. press. 350#. Treat zone @ 2.9 BPM @ 340#. ISIP 0#. Lower pkr. & latch onto RBP & POOH w/tbg. Lay dn. RBP & RTTS & shut well in for night. Total load to recover 185 bbls. Max. press 500#. Avg. press. 350#. Avg. inj. rate 2.5 BPM. Cost - 1000 rig, 5200 Hal., 1500 tools, 450 supervision.

Daily cost - \$8,150

Cum. cost - \$17,125

11-2-94 7:00 a.m. - RU Halliburton & prepare to frac. 9:10 a.m. - frac Towanda, Winfield & Krider perfs dn. 4 1/2" csg. w/952 bbl. Boragel G-3195 fluid system. Pump 15,000 gal. pad @ 41 BPM @ 520#. Pump 3000 gal. w/2 PPG 10-20 sd. @ 41 BPM @ 450#. Pump 2000 gal. w/3 PPG 10-20 sd. @ 41 BPM @ 380#. Pump 2000 gal. w/4 PPG 10-20 sd. @ 41 BPM @ 330#. Pump 3000 gal. w/5 PPG 10-20 sd. @ 41 BPM @ 287#. Pump 4000 gal. w/6 PPG 10-20 sd. @ 41 BPM @ 290#. Pump 4000 gal. w/7 PPG 10-20 sd. @ 41 BPM @ 275#. Pump 5000 gal. w/8 PPG 10-20 sd @ 41 BPM @ 260#. Pump 1730 gal. flush @ 42 BPM @ 400#. ISIP 165#. 5 min. - 88#. 10 min. - 44#. 15 min. - 13#. Total sand pumped 127,700# 10-20 mesh sd. Tag frac sd. w/R.A. material. Job complete @ 9:58 a.m. SDFN. Cost - 32,000 Hal., 1000 rig, 1000 wtr., 1000 frac tank, 450 supervision.

Daily cost - \$35,450

Cum. cost - \$52,575

11-3-94 RU sand pump. Found 40' of fill in hole. Cleaned sand out to 2704'. RU HLS & ran tracer scan log from 2693-2400'. RD HLS. Ran 80 jts. 2 3/8" EUE tbg., 15.82' MA, 1/10' SN - btm. of string @ 2511.29'. Ran 2" X 1 1/2" X 10' M-M pump w/6' gas anchor, 2' pony on top, 98 - 5/8" rods, 3 - 6' - 5/8" pony rods on tops, 1 1/4" X 16' polish rod w/5' liner. HOB @ 5:00 p.m. RDMO Gressel WS. Cost - 3250 tbg., 1500 rods, 1000 pump, 2000 pumping unit, 1000 motor, 225 supervision.

Daily cost - \$8,975

Cum. cost - \$61,550

11-5-94 MI & set Bethlehem D-40 pumping unit w/C-66 engine & portable propane tank. 1:00 p.m. - POP.

11-6-94 Pumping wtr. to pit. CP 260#.

11-7-94 Pumping mist of wtr. & gas blowing to pit. CP 360#. Shut dn. - waiting on gas line.

RECEIVED  
KANSAS CORPORATION COMMISSION

DEC 22 1994

CONSERVATION DIVISION  
WICHITA, KS

**ALLIED CEMENTING COMPANY, INC.**

913-483-2627

P. O. BOX 31

RUSSELL, KANSAS 67665

*REC*

**ORIGINAL**

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

Invoice No. 67387  
Purchase Order No. \_\_\_\_\_  
Lease Name Lang #6  
Date Sept. 25, 1994

**Service and Materials as Follows:**

Common 132 sks @\$6.85	\$ 904.20	
Pozmix 88 sks @\$3.00	264.00	
Gel 4 sk @\$9.00	36.00	
Chloride 7 sks @\$25.00	<u>175.00</u>	\$ 1,379.20
Handling 220 sk @\$1.00	220.00	
Mileage (60) @\$0.0 c per sk per mi	528.00	
Surface	430.00	
Mi @\$2.25 pmp. trk.	135.00	
61' @\$0.39c per ft. over 300'	23.79	
1 plug	<u>42.00</u>	<u>1,378.79</u>

Total \$ 2,757.99

Cement circ.  
551.59

*5000  
me 4  
P/S*

(551.59)  
2206.40

90218 00340 0007 2757.99  
Thank You! (551.59)

*Amount S. Co.*

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

**RECEIVED**  
KANSAS CORPORATION COMMISSION

DEC 22 1994

CONSERVATION DIVISION  
WICHITA, KS

Phone 313-483-2627, Russell, KS  
 Phone 316-7-3-5861, 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

7364

ORIGINAL

NEW

Date	9-25-94	Sec.	22	Twp.	215	Range	34W	Called Out	4:30 PM	On Location	7:00 PM	Job Start	8:15 PM	Finish	8:45 PM
Lease	LAN6		Well No.	#6		Location			GANO 9 1/2 W - 1 1/2 N		County	FINNEY		State	KS

Contractor	MURFIN DRUG #3		
Type Job	SURFACE		
Hole Size	12 1/4	T.D.	362'
Csg.	8 5/8	Depth	361'
Tbg. Size		Depth	
Drill Pipe		Depth	
Tool		Depth	
Cement Left in Csg.	15'	Shoe Joint	15'
Press Max.		Minimum	
Meas Line		Displace	22 BBL
Perf.			

EQUIPMENT		
No.	Cementer	TERRY
Pumptrk 279	Helper	DEAN
No.	Cementer	
Pumptrk	Helper	
	Driver	R.G.
Bulktrk 218		
Bulktrk	Driver	

DEPTH of Job		
Reference:	Pump TRUCK	430 <sup>00</sup>
	878 SURFACE PLUG	42 <sup>00</sup>
	2.25 PER MILE	135 <sup>00</sup>
	394 PER FT. 2300	23 <sup>79</sup>
	Sub Total	23 <sup>79</sup>
	Tax	
	Total	630 <sup>79</sup>

Remarks:  
 CEMENT DIO CIRC.

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 DRUG Co.  
 Street 250 N Water #300  
 City WICHITA State Kan 67202  
 The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No.  
 X Kittling  
**CEMENT**

Amount Ordered 220 SKS 60/40 PM 3% CC 2% GEL

Consisting of			
Common	132	SKS @	6 <sup>85</sup>
Poz. Mix	88	SKS @	3 <sup>00</sup>
Gel.	4	SKS @	9 <sup>00</sup>
Chloride	7	SKS @	25 <sup>00</sup>
Quickset			

Handling	1 <sup>00</sup> per SK	220 <sup>00</sup>
Mileage	4¢ per SK/mile 60 mile	528 <sup>00</sup>
	Sales Tax	
	Sub Total	2,127 <sup>20</sup>
	Total	

Floating Equipment

RECEIVED  
 KANSAS CORPORATION COMMISSION  
 DEC 22 1994  
 CONSERVATION DIVISION  
 WICHITA, KS





JOB LOG HAL-2013-C

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
P. Turner on Permian management		6		LONG		5 1/2 LINE STAIRS		635123	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	0400								CALLED OUT READY 0500
	0800								Oil Lock L.D.D.P.
	0900								START RUNNING CSG.
	1100								Hook up CMT HEAD TO CIRCULATE
	1107								CIRCULATION TO PIT - SAFETY MEETING
	1126		0						Hook up to PUMP SPACERS
	1132	3.3	40				260		START 3% SALT
	1140	3.3	12						START MUD FLUSH
	1143	3.3	15						START GEL 2 SACKS @ 7"/GAL
	1146	0	0				0		SHUT DOWN M.X. CMT. 12 1/4"/GAL
	1148	2	5				80		Hook up Pump R.H. CMT
	1150	0	0				0		SHUT DOWN CHANGE TO PUMP DOWN HOLE
	1151	5.2	172.2				0/160		START LEAD CMT 12 1/4"/GAL
	1224		25				160/300		START TAIL CMT 15.3"/GAL
	1228	0	0				0		SHUT DOWN DROP PLUG CLEAN LINES
	1232	4.7	33				0/500		START DISPLACEMENT H <sub>2</sub> O
	1237	2	43.8				500/1100		SLOW RATE DOWN 438 BBL TOTAL
	1244						1100/0		PLUG LANDED - FLOAT HELD
									Job OVER
									22 BBL CMT TO PIT 62 SKS
									THANKS FOR CALLING
									HALLIBURTON ENERGY SERVICES
									W LIBERAL KS.
									ALIVE A GOOD DAY"
									BROADFOOT MARTINEZ-ADAR-FROST

RECEIVED KANSAS CORPORATION COMMISSION

DEC 22 1994

CONSERVATION DIVISION WICHITA, KS



TICKET CONTINUATION CUSTOMER COPY

TICKET No. 635123

HALLIBURTON ENERGY SERVICES

FORM 1911 R-10

128 PLC

CUSTOMER  
PMT

WELL  
Long

DATE  
9-30-94

PAGE OF  
2 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT	
		LOG	ACCT	DF								
504-043	516.00272				Premium Cement	100	sk			10 61	1061	00
504-118					Premium Light Cement	500	sk					
504-043	516.00272				Premium Cement	325	sk			10 61	3448	25
506-105	516.00286				Pozmix A	12950	lb			074	958	30
506-121	516.00259				Gel	26	sk					NC
507-775	516.00144				Halad-322 6/10%/100sk	56	lb			7 00	392	00
508-127	516.00335				EA-2.5%/100SK	5	SK			25 90	129	50
508-291	516.00337				GILSONITE 10%/500SK	5000	LB			40	2000	00
509-406	890.50812				CALCIUM CHLORIDE 2%/500SK	9	sk			36 75	330	75
509-968	516.00315				Salt 15%/100sk	712	lb			15	106	80
<del>509-968</del>	<del>516.00158</del>				<del>SACK SALT</del>	<del>4</del>				<del>15</del>	<del>60</del>	<del>00</del>
<p>RECEIVED KANSAS CORPORATION COMMISSION DEC 22 1994 CONSERVATION DIVISION WICHITA, KS.</p>												
500-207					SERVICE CHARGE			CUBIC FEET	734	1 35	990	90
500-306					MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	TON MILES	2,497.76	95	2372	87
					62,444	80						

ORIGINAL

No. B 262945

CONTINUATION TOTAL 11770.37



# JOB SUMMARY

HALLIBURTON DIVISION  
HALLIBURTON LOCATION

WMA OILFIELD AREA  
19012 K2

BILLED ON 6/30/23  
TICKET NO.

## WELL DATA

FIELD \_\_\_\_\_ SEC. 22 TWP. 11 RNG. 31 COUNTY Lincoln 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	12	9.5	4 1/2	44'	2215'	
LINER	12	2.7	5 1/2		271'	
TUBING						
OPEN HOLE			7 1/2	371'	2750'	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

## JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>7-30-94</u>	DATE <u>7-30-94</u>	DATE <u>7-30-94</u>	DATE <u>7-30-94</u>
TIME <u>04:00</u>	TIME <u>08:00</u>	TIME <u>11:25</u>	TIME <u>1:30</u>

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG <u>5-W</u>	<u>1</u>	<u>Howco</u>
HEAD		
PACKER		
OTHER		

### PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>T. BROADBENT</u>	<u>3:247</u>	<u>Liberal Ks.</u>
<u>K. TRAP TING</u>	<u>52747</u>	<u>"</u>
<u>G. 2731</u>	<u>70476</u>	<u>"</u>
<u>J. ADAIR</u>	<u>5:566</u>	<u>Liberal Ks.</u>
<u>D. 7352</u>	<u>7:477</u>	<u>"</u>
<u>J. TRIST</u>	<u>4444</u>	<u>"</u>
<u>G. 9775</u>	<u>7:20</u>	<u>"</u>

### 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. \_\_\_\_\_ 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  
PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_  
OTHER \_\_\_\_\_  
OTHER \_\_\_\_\_

DEPARTMENT Cement  
DESCRIPTION OF JOB Cement 4 1/2" 100lb STKING  
JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN.   
CUSTOMER REPRESENTATIVE X E. ...  
HALLIBURTON OPERATOR D. B. ... COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	500	PREM. LT	B.	B.	2% C.C. - 1% (GILSONITE)	1.99	12.4
1	100	PREM.	B.	B.	5.2 EA 2.0% HAN 322-15% SALT	1.40	12.3

PRESSURES IN PSI

## SUMMARY

## VOLUMES

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PRESLUSH 43.390 BBL. GAL. TYPE 12 ANNUAL FLOW - 2 SACKS GEL  
BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_ LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_  
AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL. BBL.-GAL. 43.8  
SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN. \_\_\_\_\_ CEMENT SLURRY: BBL.-GAL. 177.2 - 25  
HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_  
ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ AVERAGE RATES IN BPM \_\_\_\_\_  
TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
CEMENT LEFT IN PIPE \_\_\_\_\_  
FEET 43.50 REASON SHOE JT.

## REMARKS

22 BBL. CMT 7.7 - 1.2 3%

CUSTOMER: P. ...  
JOB TYPE: 4 1/2" Liner Stringer  
DATE: 9-30-94



## 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.  
(0593)