

ORIGINAL

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

API NO. 15- 081-20863-0800

County HASKELL

NE - NE - SW - Sec. 33 Twp. 29 Rgo. 33 X W

2310 Feet from SW (circle one) Line of Section

2970 Feet from EW (circle one) Line of Section

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

Lease Name PREEDY Well # 1-33

Field Name N E LEMON

Producing Formation ATOKA

Elevation: Ground 2954 KB 2959

Total Depth 5645 PBDT 4988

Amount of Surface Pipe Set and Cemented at 1592 Feet

Multiple Stage Cementing Collar Used? X Yes No

If yes, show depth set 3204 Feet

If Alternate II completion, cement circulated from

feet depth to w/ sx cmt.

Drilling Fluid Management Plan ALT 1 92 5-31-95
(Data must be collected from the Reserve Pit)

Chloride content 5000 ppm Fluid volume 600 bbls

Dewatering method used EVAPORATION

Location of fluid disposal if hauled offsite:

Operator Name

Lease Name License No.

 Quarter Sec. Twp. S Rng. E/W

County Docket No.

Operator: License # 9953

Name: HARRIS OIL & GAS COMPANY

Address 1125 - 17TH ST., STE 2290

City/State/Zip DENVER, CO 80202

Purchaser:

Operator Contact Person: HAROLD FRANK

Phone (316) 624-8388

Contractor: Name: ALLEN DRILLING

License:

Wellsite Geologist: BOB KOZAREK

Designate Type of Completion
X New Well Re-Entry Workover

X Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, MSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator:

Well Name:

Comp. Date Old Total Depth

 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBDT
 Commingled Docket No.
 Dual Completion Docket No.
 Other (SWD or Inj?) Docket No.

8/11/94 8/31/94 10/10/94
Spud Date Date Reached TD Completion Date

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 Harold Frank

Title AGENT Date 10/20/94

Subscribed and sworn to before me this 20TH day of OCTOBER, 19 94.

Notary Public HELEN BARR
NOTARY PUBLIC, State of Kansas
My Appt. Exp. 9-13-95

Date Commission Expires

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC
 KGS
 SWD/Replug
 NGPA
 Other (Specify)
OCT 22 1994
RECEIVED
STATE CORPORATION COMMISSION
WICHITA, KANSAS

Operator Name HARRIS OIL & GAS COMPANY

Lease Name PREEDY

Well # 1-33

Sec. 33 Twp. 29 Rge. 33

East

County HASKELL

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:

COMPENSATED NEUTRON

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
LANSING	4100	
KANSAS CITY	4600	
MARMATON	4700	
MORROW	5100	

CASING RECORD

New Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	12 1/2	8 5/8	24#	1575	LITE	600	2% CC FLOCELE
					CLASS C	200	2% CC GILSONITE
	7 7/8	4 1/2	10.5#	5194	CLASS H	330	7% EA-2, 15% SALM 6# GILSONITE

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input checked="" type="checkbox"/> Protect Casing	1850-3210	LITE	250	2% CC, 1/4# FLOCELE
<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
2	ATOKA 5076 - 5170	3000 GAL 15%/ 5500 GAL 15%	
	CIBP - SET @ 4988		
4	MARMATON - 4971 - 4801	1000 GAL 15%/ 4000 GAL 15%	

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8	4837	NONE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SVD or Inj. 10/11/94 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	35		25		

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

METHOD OF COMPLETION
 Open Hole Perf. Dually Comp. Commingled
 Other (Specify) _____

Production Interval
4791 - 4801

PREEDY #1-33
NE NE SW SECTION 33, T29S-R33W
HASKELL COUNTY, KANSAS

DAILY DRILLING REPORT

- 8-12-94 TD 600' (600') Drilling - Bit #1, 12 1/4" made 600' in 3 1/2 hrs. - Mud wt. 9.5 - Vis 35 - LCM 3# - 7 1/4 hrs. Rig up - 3 1/2 hrs. Drilling - 4 1/4 hrs. Rig Service - 3 hrs. Mix mud - Spudded @ 11:45 PM - 8/11/94.
- 8-13-94 TD 776 (176') Work stuck pipe - Bit #1 made 776' in 5 1/2 hrs. - Mud wt. 9.4 - Vis 41 - LCM 12# - 2 hrs. Drilling 1/2 hr. Service Rig - Repairs 5 1/2 hrs. - Lost circ. 9 1/4 hrs. - Stuck pipe 7 hrs. - Drilled to 770' - Lost circ. - TOOH - Pumped 1 pit - Premix with 12# LCM - Filled hole - Ran bit to bottom - Washed from 70' to 770' - Drilled 6' - Lost circ. - TOOH - Pulled into tight spot @ 233' - Stuck pipe - Broke elevators - WO elevators 5 hrs. - Replaced same - Could not work pipe loose - Ran 1" pipe to 120' - Circ. ok.
- 8-14-94 TD 776 (0) Running 13 3/8 casing - Mud wt. 9.4 - Vis 48 - LCM 14 - 6 1/4 hrs. Reaming - 1/2 hr. circ. - 2 3/4 hrs. Trip - 2 1/2 hrs. Run casing 5 hrs. Fishing - 2 1/2 hrs. Wash w/ 1" - 2 1/2 hrs. - WO fishing tools - Washed down to 120' with 1" pipe - Could not go any deeper - LD 1" pipe - PU driving tool - Drove fish down hole 22' - No circ. - Pulled up hole 25' - Stuck fish - Knocked loose - Broke circ. full returns - TOOH - Had 17 1/2" bit - Reamed out hole to 496' - Circ. 1/2 hr. TOOH - PU 13 3/8 casing.
- 8-15-94 TD 776 (0) Mix mud - Mud wt. 9.0 - Vis 90 - LCM 13# - 1/4 hr. Rig Service - 3/4 hrs. repair - 11 1/2 hrs. run casing and cement - 8 hrs. WOC - 2 1/2 hrs. Drill plug - 1 hr. mix mud - Ran total 9 joints 13 3/8" - 48#, A-Grade casing - Total 385.38 - Set down @ 386' - Worked 1 1/2 hrs. - Would not go any deeper - Set casing @ 383 - Cemented with 275 sx lite with 2% CC - Good circ. - Plug down @ 6:30 PM 8-14-94 - WOC 8 hrs. - Drilled plug - Mixing mud to build volume - Full returns @ 386'.
- 8-16-94 TD 1030 (254') Drilling - Bit #2 made 254' in 3 1/2 hrs. - Mud wt. 8.9 - Vis 38 - LCM 24# - 3 1/2 hrs. drilling - 1/2 hr. Rig Service - 1/2 hr. repair - 4 1/2 hrs. Ream - 2 3/4 hrs. trip - 12 1/4 hrs. Mix mud - Mixed mud and built volume - Trip for plugged bit - Broke circ. @ 526' - LCM 24# - Washed to bottom @ 776' - Circ. with full returns for 10-15 min. then lost circ. - Regained partial returns after 5-10 min. - Attempt to make connection - Would set down @ 765' - Circ. 30 min. - Lost estimated 50 bbls - Made connection - Drilled to 998 with 90-95% returns - Lost circ. - TOOH Mixed mud and built volume - TIH with bit - Washed from 500 to 850' - Back to drilling @ 6:00 AM - Lost est. 600 bbls mud - Elevations: gr. 2954 - df. 2958 - kg 2959.
- 8-17-94 TD 1575 (545') WOC - Bit #3 made 799' in 9 3/4 hrs. - Mud wt. 9.3 - Vis 36 - LCM 16# - 6 1/4 hrs. Drilling - 2 1/4 hrs. Rig Service - 2 hrs. Repair pump - 3 1/2 hrs. Trip - 1/2 hr. Circ. - 5 1/2 hrs. Run casing and cement - 4 hrs. WOC - Drilled to 1470' - Lost circ. - DP on vacuum dry drilled to 1575 - Plugged bit - TOOH - Ran 35 joints 8 5/8", 24# A-Grade casing - Total 1567.69 set @ 1575 with landing joint - Halliburton cemented with 600 sx lite with 2% CC, 1/4# flocele, 10# gilsonite followed by 100 sx Class C with 2% CC - No circ. - Left psi 250# - Plug down @ 2:30 AM - 8-17-94 - Cemented top with 100 sx Class C with 2% CC - Hole filled - Job complete @ 3:00 AM.

RECEIVED
STATE CORPORATION COMMISSION

JUN 12 1995

CONSERVATION COMMISSION
WICHITA, KANSAS

PREEDY #1-33
NE NE SW SECTION 33, T29S-R33W
HASKELL COUNTY, KANSAS

DAILY DRILLING REPORT

- 8-18-94 TD 2125 (550') Drilling - Bit #3, 7 7/8" made 550' in 9 1/4 hrs. - Mud wt. 9.3 - Vis 28 - 9 1/4 hrs. Drilling - 2 hrs. Rig Service and connection - 1/4 hr. Repairs - 12 1/2 hrs. WOC - Tested BOP to 500# - Held ok - Drilled plug in 9 hrs. - Cement soft - Wait 3 hrs. - Soft - Wait 16 hrs. - Drilling ahead.
- 8-19-94 TD 2940 (815') Drilling - Bit #3 made 1365' in 24 1/4 hrs. - Mud wt. 9.3 - Vis 30 - LCM 3# - CL 68,000 - 15 1/4 hrs. Drilling - 2 3/4 hrs. Rig Service - 3 1/4 hrs. Trip - 1/4 hr. Repair - 1 1/2 hrs. Survey - 3/4 degrees @ 2406' - Trip for plugged bit @ 2406.
- 8-20-94 TD 3196 (256') Stuck pipe - Bit #3 made 1621' in 32 hrs. - Mud wt. 9.0 - Vis 32 - CL 30,000 - LCM 2# - 7 3/4 hrs. Drilling - 1 1/4 hr. Rig Service - 1/2 hr. Repair - 14 3/4 hrs. Stuck pipe - Drilled to 3196' - Broke main drive chain in draw works - Repaired same - DP stuck - Spotted 45 B/O.
- 8-21-94 TD 3840 (644') Drilling - Bit #3 made 2265' in 50 1/2 hrs. - Mud wt. 8.7 - Vis 35 - CL 21,000 - LCM 2# - 18 1/2 hrs. Drilling - 2 3/4 hrs. Rig Service - 2 3/4 hrs. Stuck - Spotted 50 bbls oil - Pulled loose in 30 min.
- 8-22-94 TD 4227 (387') MU tool for DST #1 - Bit #3 made 2652' in 59 3/4 hrs. - Mud wt. 9.0 - Vis 38 - WL 8.8 - CL 3800 - CLM 1# - 9 1/4 hrs. Drilling - 2 1/4 hrs. Rig Service - 1/4 hrs. Repair - 3 3/4 hrs. Circ. - 8 1/2 hrs. Trip - Trip for plugged bit @ 3980 - Drilled to 4227 - Circ. sample up - Made 6 stand short - TOOH for DST #1 - MU test tools.

SAMPLE TOPS

Heebner	4071	-2812	-2
Lansing	4218	-2959	-4

110 unit gas kick - Good cut - Good show free oil - Fair build to bottom of bucket in 16 min. Testing Lansing.

- 8-23-94 TD 4465 (238') Drilling - Bit #3 made 2890' in 69 hrs. - Mud wt. 9.0 - Vis 48 - WL 8.8 - CL 4800 - LCM 4# - 9 1/4 hrs. Drilling - 1 hr. Rig Service - 1/4 hr. Repair - 2 1/2 hrs. Circ. - 6 1/2 hrs. Trip - 4 1/2 hrs. DST #1 - 1 1/2 degree @ 4227 - ~~Ran DST #2, Lansing C, 4181-4227, 30-60=60=120, IHH=1972, LR 59-79, ISI 739, FF 247-326, RSI 739, EHH 1962 - Recovered 240' gas, SOCM, 30' clean oil, 535' SGCW, CL 85,000, Res. .135 @ 70 degrees.~~

SAMPLE TOPS

Lansing D	4260	-1301	-3
Lansing F	4332	-1373	-1
Lansing H	4462	-1503	-7

- 8-24-94 TD 4681 (216') TIH w/ DST #2 - Bit #3 made 3106' in 76 3/4 hrs. - Mud wt. 8.9 - Vis 42 - WL 7.2 - CL 4200 - LCM 3# 8 1/4 hrs. Drilling - 1 hr. Rig Service - 5 1/2 hrs. Trip for plugged bit - 4 1/2 hrs. Circ. - 4 3/4 hrs. Circ. - Trip for DST #2.

SAMPLE TOPS

KANSAS CITY A	4616	-1657	+8
KANSAS CITY B	4668	-1709	+7 To the Preedy #1

PREEDY #1-33
NE NE SW SECTION 33, T29S-R33W
HASKELL COUNTY, KANSAS

DAILY DRILLING REPORT

8-25-94 TD 4781 (100') Drilling - Bit #3 made 3206' in 82 1/2 hrs. - Mud wt. 8.9 - Vis 90 - WL 12.8 - CL 5200 - LCM 2# - 5 3/4 hrs. Drilling - 1/4 hr. Rig Service - 3 3/4 hrs. repair - 5 hrs. Trip for plugged bit - 9 1/4 hrs. DST #2 - 1 degree @ 4681. Ran ~~DST #2, Kansas City B, 4658-81, 30-60-60-120, IHH 2358, IF 70-91 strong blow, ISI 1114, FF 101-151 strong blow - GTS in 35 min - TSTM, FSI 1135, FHH 2360 - Rec. 30' SOGCM, 180' SOGCMW - CL 30,000 ppm - T 134 degrees.~~

SAMPLE TOPS

Marmaton	4753	-1794	-2
Marmaton C	4789	-1830	-1

New Reference Well - PanAm Petroleum's Miller Gas Unit "I" #1, NW SE of Section 33, T29S-R33W.

8-26-94 TD 4875 (94') Drilling - Bit #3 made 3300' in 88 1/4 hrs. - Mud wt. 9.0 - WL 96 - CLM 2# - CL 5200 - 5 3/4 hrs. Drilling - 1/2 hr. Rig Service - 1 1/2 hrs. Circ. - 1/4 hr. Repair - 16 hrs. DST #3 - Ran DST #3, marmaton C, 4773-4797, 30-60-60-120, IHH 2278, IF 80-101 strong blow, GTS in 22 minutes - 30 minutes 7.3 mcf, ISI 1215, FF 70-151 - 10 min. 29.8 mcf, 20 min 16.7 mcf, 30 min. 10.9 mcf, 40 min. 13.5 mcf, 50 min. 14.0 mcf, FSI 1215, FHH 2278, Rec. 20' HO & GCM (30% oil) 120' SO & GCM (10% oil) 60' HO & GCM (20% oil) 150' muddy oil (60-90% oil).

SAMPLE TOPS

Pawnee	4880	-1921	-2
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8-27-94 TD 4970 (95') Drilling - Bit #3 made 3395' in 94 1/2 hrs. - Mud wt. 9.0 - Vis 47 - WL 10.4 - CL 4800 - LCM 3 - 24 hrs. Breakdown - 6 1/4 hrs. Drlg - 4 1/2 hrs. Rig Repair - 1 1/4 hrs. Circ. - 2 hrs. Trip - 10 hrs. DST #4 - Ran DST #4, Pawnee 4835-4893, 30-60-30-60, IHH - 2368 - IF 101-121 - wk blow - FSI 273 - FHH 2338 - Rec. 220' DM - no show.

8-28-94 TD 5280 (310') CFS - Bit #3 made 3705' in 116 hrs. - Mud wt. 9.0 - Vis 55 - WL 9.6 - CL 3800 - LCM 4 - 24 hrs. Breakdown - 2 3/4 hrs. drlg - 1 hr. Rig Service - 4 hrs. circ - 16 hrs. DST #5 - 1/4 hr. survey - 1 1/2 degrees @ 5345 - Ran DST #5, Morrow 5282-5345, 30-60-30-60 - IHH 2579 - IF 101-121, weak blow - ISI 172, FF 141-172 - No blow - FSI 212 - FHH 2579 - Rec 120' mud - no show.

SAMPLE TOPS

Ft. Scott	4914	-1955	-2
Atoka	5070	-2114	-3
Morrow	5210	-2251	+6

8-30-94 TD 5605 (260') Drilling - Bit #3 made 4030' in 137 1/2 hrs. - Mud wt. 9.0 - Vis 55 - WL 9.6 - LCM 4 - CL 4200 - 24 hrs. Breakdown - 18 3/4 hrs. Drilling - 1/2 hr. Rig Service - 3 1/4 hrs. circ. - 1/2 hr. DST #5.

SAMPLE TOPS

Chester	5396	-2437	-27
St. Gen	5452	-2493	-26

PREEDY #1-33
NE NE SW SECTION 33, T29S-R33W
HASKELL COUNTY, KANSAS

DAILY DRILLING REPORT

8-31-84 TD 5645 (40') on bottom with DST #6 - Bit #3 made 4070' in 141 3/4 hrs. - Mud wt. 9.0 - Vis 60 - WL 9.6 - CL 4800 - LCM 2 - 24 hrs. breakdown - 4 1/2 hrs. drilling - 1/2 hr. rig service - 1 1/2 hrs. circ. - 2 1/2 hrs. trip - 6 hrs. logging - 9 hrs. DST #6 - 1/4 hr. survey - 1 degree @ 5645 - TD @ 11:45 am - Condition hole - Ran logs - LTD 5646 - Ran DST #6 - Morrow, 5366-5484 with tail pipe to bottom, 20-60-60-180 - IF gts in 5 min, 10 min 1233 mcf, 20 min 1346 mcf, FF - 10 min 980 mcf, 20 min 802 mcf, 30 min 653 mcf, 40 min - 542 mcf, 50 min - 411 mcf, 60 min 411 mcf.

KB 2959	
HEEBNER	4070 -1111
LANSING	4130 -1171
LANSING B	4162 -1203
LANSING C	4216 -1257
LANSING D	4260 -1301
LANSING E	4300 -1341
LANSING F	4332 -1373
LANSING G	4432 -1473
LANSING H	4462 -1503
KANSAS CITY A	4616 -1657
KANSAS CITY B	4668 -1709
KANSAS CITY C	4709 -1750
MARMATON	4762 -1803
MARMATON C	4790 -1831
PAWNEE	4883 -1924
FT. SCOTT	4914 -1955
MORROW	5218 -2259
MORROW SAND	5376 -2412
CHESTER	5419 -2460
ST. GEN	5490 -2531
ST. LOUIS	5560 -2601

9-1-94 TD 5645 (0') on bottom with DST #7 - Mud wt. 9.0 - Vis 50 - WL 8.8 - CL 2800 - LCM 1 - 24 hrs. breakdown: 3 1/2 hrs. circ - 13 hrs. trip - 2 3/4 hrs. MU and LD test tool - 4 3/4 hrs. DST #6 and #7 - TOOH with DST #6 - IHH 2895 - IF 467 - 396, ISI 1108, FF 325 - 193, FSI - 426, FHH - 2691 - Rec 565' of GCM - TIH with bit, condition hole for DST #7 - TOOH - Ran DST #7 - Morrow 5290 - 5366 - 30-60-60-120 - IF strong blow - FF fair blow.

9-2-94 TD 5645 (0') Mud wt. 9.0, Vis 45, WL 8.8, LCM 1#. TOOH w/ DST #7, Morrow 5290-5366. IHH 2687, IF 87 to 115, ISI 248, FF 115 to 125, FSI 239, FHH 2640. Rec 170' DM - no show oil or gas. TIH w/ bit, cond hole for 4 1/2" casing. LDDP, no BOP. Rig up csg crew. TOOH w/ DST #7, TIH w/ Bit 561' - circ 10 min, lost circ, pulled 5100', filled hole, would not circ. Pumped est 200 bbls, pulled bit up to 3900', mixed mud, filled hole w/ 20 bbls, tripped to bottom w/ bit, LDDP.

After review of logs, samples and DST data, the decision was made to run 4 1/2" production casing to 5196' (Lower Atoka). The Marmaton "C" zone will be the primary pay. Amoco Production Company has elected to join in the well.

CHARGE TO: HARRIS OILCO
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

COPY

TICKET

No. **677673-7**

PAGE 1 OF 1

FORM 1906 R-13

SERVICE LOCATIONS 1. <u>Liberal 075542</u>	WELL/PROJECT NO. <u>1-33</u>	LEASE <u>Deedly</u>	COUNTY/PARISH <u>Harris</u>	STATE <u>KS</u>	CITY/OFFSHORE LOCATION	DATE <u>5-16-94</u>	OWNER <u>SAME</u>
2. <u>Hughes 025325</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <u>Allen Oil Co.</u>	RIG NAME/NO.	SHIPPED VIA <u>LIT</u>	DELIVERED TO <u>Loop 4-20</u>	ORDER NO.
3.	WELL TYPE <u>OP</u>	WELL CATEGORY <u>01</u>	JOB PURPOSE <u>OPD 8 5/8 Suction Pipe</u>	WELL PERMIT NO.	WELL LOCATION <u>33-29-33W</u>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF		U/M	U/M			
000-117					MILEAGE 5060	66	M.	1	2.75	181.50
001-016					Pump Charge	6	HRS	1574	KR.	1320.00
030-08					Swiper Top Plug	1	EA	8.00		130.00
24A	815,19502				Insert Float	1	EA			171.00
27	815,19415				F. Plug	1	EA			55.00
40	806,61048				Cent. 2000	3	EA		65.00	195.00
320	806,70060				Basket	1	EA			122.00

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 [Signature]

DATE SIGNED: 8-11-94 TIME SIGNED: 2300 A.M. P.M.

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: 2174.50
 FROM CONTINUATION PAGE(S): 1518.36
 SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE: 17358.14

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): HARRIS CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE): X [Signature] HALLIBURTON OPERATOR/ENGINEER: [Signature] EMP #: 04437 HALLIBURTON APPROVAL: _____



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

MID CONTINENTAL AREA
LIBERAL KS

BILLED ON TICKET NO. 633110

WELL DATA

FIELD _____ SEC. 33 TWP. 27S RNG. 33W COUNTY. HASKELL 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 PORT COLLAR SET AT 3208-11

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH _____

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>9-1-94</u>	DATE <u>9-1-94</u>	DATE <u>9-2-94</u>	DATE <u>9-2-94</u>
TIME <u>1700</u>	TIME <u>2100</u>	TIME <u>1700</u>	TIME <u>1230</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>T. BROADBENT</u>	<u>38242</u>	<u>LIBERAL KS.</u>
<u>R. MARTINEZ</u>	<u>52747</u>	<u>11</u>
<u>M. HOWE</u>	<u>51984</u>	<u>HUGOTON KS.</u>
<u>J. ADAIR</u>	<u>50866</u>	<u>11</u>

ORIGINAL

DEPARTMENT CEMENT

DESCRIPTION OF JOB CEMENT 4 1/2 PORT COLLAR LONG STRING

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

CUSTOMER REPRESENTATIVE X

HALLIBURTON OPERATOR Jim Broadbent

COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>420</u>	<u>Prem EXPANDING</u>	<u>B</u>	<u>125H2-1% C.C. - 15% SALT 1.5% MUD 322</u>	<u>106</u>	<u>106</u>	<u>15.2</u>

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____

BREAKDOWN _____ MAXIMUM _____

AVERAGE _____ FRACTURE GRADIENT _____

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

HYDRAULIC HORSEPOWER _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET 45.15 REASON SHORE IT

SUMMARY

VOLUMES

PRESLUSH: BBL-GAL. 5-10-5-5 TYPE N.S. MUDFILTS

LOAD & BKDN: BBL-GAL. _____

TREATMENT: BBL-GAL. _____

CEMENT SLURRY: BBL-GAL. 106

TOTAL VOLUME: BBL-GAL. _____

REMARKS

PUMPED ONLY 330SK.

CUSTOMER: HARRIS OIL & GAS
LEASE: PREC'D
WELL NO.: 1-33
JOB TYPE: 4 1/2 PORT COLLAR RAILS DATE: 9-1-94



HALLIBURTON ENERGY SERVICES

TICKET CONTINUATION

CUSTOMER COPY

49 M.C.

TICKET No. 677073

FORM 1911 R-10

CUSTOMER Harris oil & Gas	WELL Dreeny 1-33	DATE 08-16-94	PAGE	OF
---	----------------------------	-------------------------	------	----

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
504-050	51600265				Premium Plus Cement	480	sk			10.36	4972.00
504-120					Premium Plus Lite Cement	600	sk			9.28	5568.00
504-050	516.00265					390	sk				
506-105	516.00286					15540	lb				
506-221	516.00259					31	sk				
507-210	890.50071				Flocele 1/2" W/ 800	200	lb			1.65	330.00
508-292	70-15573 890.50812				Gilsonite	6000	lb			.50	3000.00
509-406	890.50812				Calcium Chloride 20W1000	15	sk			36.75	551.25
500-225					200 SKS	2072	sk			n/a	207.20
500-301					19.76	33	sk				300.58
500-207					SERVICE CHARGE					1.35	1578.15
500-306					MILEAGE CHARGE					4.50	1576.47
						TOTAL WEIGHT	100,572	LOADED MILES	33		
						CUBIC FEET	1169				
						TON MILES	1659.438				

ORIGINAL

No. B 262779

CONTINUATION TOTAL 1518365

DATE 8-16-54
JOB LOG FORM 2013 R-4

 CUSTOMER H. W. ... WELL NO. 133 LEASE Uccedy JOB TYPE 8 1/2" 50' ... TICKET NO. 677673

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1300							Called out ready now
	0105							ON LOCATION - Rig S&DP
	0150							Set up Co. Truck
	0235							SAFETY MEETING
	0245							RIM w/ 8 1/2" casing
	0025							ON BOTTOM
	0030							Drop Ball
	0045							Circulate with Rig Pump
	0100							Hook up cement train
	0103	5	245					100 Start lead cement
	0150	5	235					100 Start Tail cement
	0203							Release plug
	0204	H						50/50 Displace plug
	0236	1						550 Land Plug
								Release plug check float ok
	0245							0 Knock Loose
	0247	2	235					0 Mix Cement fill Annulus
	0253	1						0 Gravity fill up
								0 wait 1/2 hr to see if fills
								0 back
	003							

ORIGINAL

 PAGE 7
 677673
 7

CUSTOMER



JOB SUMMARY

HALLIBURTON DIVISION

Mid Continent

HALLIBURTON LOCATION

LIBERAL, KS

BILLED ON TICKET NO.

635404

WELL DATA

FIELD _____ SEC. _____ TWP. _____ RNG. _____ COUNTY HASKELL 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 PORT COLLAR SET AT 3204
 BOTTOM HOLE TEMP. _____ PRESSURE _____
 DISC DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	10.5	4 1/2			
LINER						
TUBING	U	4.7	2 3/8	KB	3204	
OPEN HOLE						SHOTS/FT.
PERFORATIONS			ORIGINAL			
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
9-21-94	9-21-94	9-21-94	9-21-94
DATE	DATE	DATE	DATE
TIME 0730	TIME 1000	TIME	TIME 15

TOOLS AND ACCESSORIES

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

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
J. Woodrow 62573	90098 PU	LIBERAL KS
J. Poyer 48120	52274 ABC RCM 76903	" "
M. Howe 77343	31981 7125	HUGOTON KS

MATERIALS

HEAVY FLUID _____ DENSITY _____ LB./GAL. API
 LIGHT FLUID _____ DENSITY _____ LB./GAL. API
 COP. TYPE _____ SIZE _____ LB.
 COP. TYPE _____ SIZE _____ LB.
 CID TYPE _____ GAL. _____ %
 CID TYPE _____ GAL. _____ %
 CID TYPE _____ GAL. _____ %
 SURFACTANT TYPE _____ GAL. _____ IN
 SEALANT TYPE _____ GAL. _____ IN
 FLUID LOSS ADD: TYPE _____ GAL.-LB. _____ IN
 GELLING AGENT TYPE _____ GAL.-LB. _____ IN
 CHEM. RED. AGENT TYPE _____ GAL.-LB. _____ IN
 BREAKER TYPE _____ GAL.-LB. _____ IN
 LOCKING AGENT TYPE _____ GAL.-LB. _____
 TRIPAC BALLS TYPE _____ QTY. _____
 OTHER _____
 OTHER _____

DEPARTMENT CEMENT
 DESCRIPTION OF JOB
CEMENT THROUGH PORT COLLAR TO RAISE CEMENT ON PRODUCTION STRING
 JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
 CUSTOMER REPRESENTATIVE X Woodrow
 HALLIBURTON OPERATOR J. Woodrow COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	200	Premium + LSF	HALCO	B	1/4 FLOCCLE	2.06	12.5
	50	Premium +	" A	B		1.36	14.8

PRESSURES IN PSI

SUMMARY

VOLUMES

REGULATING _____ DISPLACEMENT _____
 BREAKDOWN _____ MAXIMUM 1500
 FRACAGE _____ FRACTURE GRADIENT _____
 TIME-IN: INSTANT _____ 5-MIN _____ 15-MIN _____
 HYDRAULIC HORSEPOWER _____
 ORDERED _____ AVAILABLE _____ USED _____
 AVERAGE RATES IN BPM
 PUMPING 3 DISPL. 3 OVERALL 3
 CEMENT LEFT IN PIPE _____
 OTHER _____ REASON _____

PRESLUSH: BBL.-GAL. _____ TYPE _____
 LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____ DISP: BBL.-GAL. 11.5
 CEMENT SLURRY (BBL.-GAL.) 73.3 LC
12.1 TC
 TOTAL VOLUME: BBL.-GAL. 85.4 REMARKS _____
 STATE RECEIVED
 CORPORATION COMMISSION
 OCT 24 1994
 GUNBERNATION DIVISION
 WICHITA, KANSAS

CUSTOMER: HARRIS OIL & GAS
 LEASE: PERRY
 WELL NO.: 1-33
 JOB TYPE: CEMENT
 DATE: _____



JOB LOG HAL-2013-C

CUSTOMER HARRIS OIL & GAS WELL NO. 1-33 LEASE FREEDY JOB TYPE REFEEDMENT TICKET NO. 635404

Table with columns: CHART NO., TIME, RATE (BPM), VOLUME (BBL) (GAL), PUMPS T C, PRESSURE (PSI) TUBING CASING, DESCRIPTION OF OPERATION AND MATERIALS. Includes handwritten entries for job progress, pump rates, and volumes.

ORIGINAL

THANK YOU!

WOODY, FOR MARK

RECEIVED STATE CORPORATION COMMISSION

OCT 24 1994

REGISTRATION DIVISION WICHITA, KANSAS



HALLIBURTON

JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

MID CONTINENT AREA
L. SERIAL KS

BILLED ON TICKET NO. 632110

WELL DATA

FIELD _____ SEC 33 TWP 29S RNG 33W COUNTY HASKELL 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 PORT COLLAR SET AT 3208-11

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	10.5	4 1/2	KB	5172.5	
LINER	U	24		GL	1575	
TUBING	U	48	1 3/8		350	
OPEN HOLE				1575	5640	SHOTS/FT
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>9-1-94</u>	DATE <u>9-1-94</u>	DATE <u>9-2-94</u>	DATE <u>9-2-94</u>
TIME <u>1700</u>	TIME <u>2100</u>	TIME <u>1700</u>	TIME <u>1200</u>

PERSONNEL AND SERVICE UNITS		
NAME	UNIT NO. & TYPE	LOCATION
<u>T. BROADFOOT</u>	<u>38242</u>	<u>L. SERIAL KS</u>
<u>R. MARTINEZ</u>	<u>52747</u>	<u>11</u>
<u>M. HOWE</u>	<u>51784</u>	<u>HUGOTON KS</u>
<u>J. ADAIR</u>	<u>50866</u>	<u>11</u>
	<u>7647</u>	

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
<u>PORT COLLAR</u>	<u>3</u>	<u>H</u>
<u>GUIDE SHOE</u>	<u>1</u>	<u>D</u>
<u>CENTRALIZERS</u>	<u>15</u>	<u>W</u>
<u>BOTTOM PLUG</u>		<u>C</u>
<u>TOP PLUG</u>		<u>O</u>
<u>HEAD</u>		
<u>PACKER</u>		
<u>OTHER</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. _____

PERFRAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT CEMENT

DESCRIPTION OF JOB CEMENT 4 1/2 PORT COLLAR LONG STRING

JOB DONE THRU: TUBING CASING ANNULUS TBC/ANN

CUSTOMER REPRESENTATIVE X H. ...

HALLIBURTON OPERATOR Jm. Broadfoot

COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>420</u>	<u>Prem. EXPANDING</u>	<u>B</u>	<u>178.12</u>	<u>1% C.C. - 15% SALT. 75% #110322</u>	<u>140</u>	<u>15.2</u>

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____

BREAKDOWN _____ MAXIMUM _____

AVERAGE _____ FRACTURE GRADIENT _____

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

HYDRAULIC HORSEPOWER _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET 45.15 REASON SHUT IN

SUMMARY

VOLUMES

PRESLURRY: BBL. GAL. 5-10-5-5

LOAD & BKDN: BBL. GAL. _____

TREATMENT: BBL. GAL. _____

CEMENT SLURRY: BBL. GAL. 106

TOTAL VOLUME: BBL. GAL. _____

DISPL. BBL. GAL. 81.8

REMARKS

Pumped only 3375K.

RECEIVED STATE CORPORATION COMMISSION

UCT 24 1994

COLUMBIAN CASION DIVISION WICHITA, KANSAS



JOB LOG HAL-2013-C

CUSTOMER HARRIS OIL & GAS	WELL NO. 1-33	LEASE PRE-AN	JOB TYPE 4 1/2 LONG STRING	DATE 9-1-94	TICKET NO. 635110
------------------------------	------------------	-----------------	-------------------------------	----------------	----------------------

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1700							CALLED OUT READY 2200
	2100							ON LOCK L.D.P.
								START CSG IN HOLE
	1005							hook up HEAD TO CIRCULATE
	1030							Circulating To PIT - SAFETY MATING
	1050							DROPPED BALL TO SET PACKER
	1050							hooked up TO CMT LINE
	1110							START TO SET PACKER HIGHEST
								PRESSURE SEEN BEFORE CIRCULATE
								430 PSI
	1112	3	5					300 STARTED SPACERS PUS 5
	1114	3	10					400 STARTED MUD FLUSH
	1117	3	5					430 STARTED PUS 5
	1119	3	5					400 STARTED 2% PCL
	1120	-	-					- STARTED MIXING CMT. 15.8 GAL
	1122	3.5	835					300 STARTED CMT DOWN HOLE
	1201	-	-					- SHUT DOWN CLEAN LINES DROPPED
	1207	7.5	60					START DISPLACEMENT
	1213	5	71					SLOWED RATE TO 5 BPM
	1215	2	81.8					SLOWED RATE TO 2 BPM 81.8 TOTAL
	1220							SHUT DOWN PLUG LANDED - FLOW HELD
								Job OVER
								THANKS FOR CALLING HALLIBURTON ENERGY SERVICES LIBERAL KS. HAVE A GOOD DAY
								BROWN FOOT - MARTINEZ - HOWE - ADAIR

ORIGINAL

RECEIVED STATE CORPORATION COMMISSION

OCT 24 1994

CONSERVATION DIVISION WICHITA, KANSAS



JOB LOG HAL-2013-C

DATE 9-1-94 PAGE 1

CUSTOMER: OIL & GAS WELL NO.: 1-33 LEASE: PREEV JOB TYPE: 4 1/2 LONG STRING TICKET NO.: 635110

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1700							CAUSED OUT READY 2200
	2100							ON LOC. L.D.D.P.
								START CSG IN HOLE
	1005							HOOK UP HEAD TO CIRCULATE
	1031							CIRCULATION TO PIT - SAFETY MEETING
	1050							DROPPED BALL TO SET PACKER
	1050							HOOKED UP TO CAT LINE
	1110							START TO SET PACKER HIGHEST PRESSURE SEEN BEFORE CIRCULATE 4300 PSI
	1112	3	5				300	STARTED SPACERS PUS 5
	1114	3	10				400	STARTED MUD FLUSH
	1117	3	5				430	STARTED PUS 5
	1119	3	5				400	STARTED 2% PCL
	1120	-	-				-	STARTED MIXING CMT. 15 2/3 GAL
	1122	35	835				300	STARTED CMT DOWN HOLE
	1201	-	-				-	SHUT DOWN CLEAN LINES DROP PLUG
	1207	7.5	60				400	START DISPLACEMENT
	1213	5	71				400	SLOWED RATE TO 5 BPM
	1215	2	81.8				400	SLOWED RATE TO 2 BPM 81.8 TOTAL
	1220							SHUT DOWN PLUG LADDED - FLOW HELD
								Job OVER
								THANKS FOR CALLING HALLIBURTON ENERGY SERVICES L. BERAC KE
								HAVE A GOOD DAY
								BROADFOOT - MARTINEZ - HOWE - ADAIR

ORIGINAL

OCT 24 1994

RETAIN

WICHITA MISSOURI



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

WELL NO. 630110
DIVISION WICHITA
COUNTY LANCASHIRE

TICKET NO. 630110

WELL DATA

FIELD 33 SEC 33 TWP 21S RANG 33W COUNTY HANSEN 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 PORT CEMENT SET AT 3253-11

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	10.5	4 1/2	KB	5171.5	
LINER	N	24	1	CL	1513	
TUBING	N	13.2	1 1/2		50	
OPEN HOLE				1575	5645	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>PORT CEMENT 4 1/2"</u>	<u>3</u>	<u>H</u>
FLOAT SHOE		
GUIDE SHOE <u>FRONT PACKER</u>	<u>1</u>	<u>O</u>
CENTRALIZERS <u>3-4</u>	<u>15</u>	
BOTTOM PLUG		<u>W</u>
TOP PLUG		
HEAD		<u>C</u>
PACKER		
OTHER		<u>O</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.-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 _____

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>1-16-94</u>	DATE <u>1-14</u>	DATE <u>7-2-94</u>	DATE <u>7-2-94</u>
TIME <u>1700</u>	TIME <u>2100</u>	TIME <u>1700</u>	TIME <u>10</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>LIBERMAN</u>	<u>33242</u>	<u>LANCASHIRE</u>
<u>K. MARTINEZ</u>	<u>52147</u>	<u>W</u>
<u>M. HOWE</u>	<u>5194</u>	<u>HAGOTON</u>
<u>J. ADAMS</u>	<u>75300</u>	<u>KS</u>
<u>G. 3313</u>	<u>7649</u>	<u>W</u>

DEPARTMENT CEMENT

DESCRIPTION OF JOB CEMENT 4 1/2 PORT CEMENT
LANCASHIRE

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X Jim Bradford

HALLIBURTON OPERATOR Jim Bradford COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>420</u>	<u>PORT CEMENT</u>	<u>B</u>	<u>175EA2-17CC</u>	<u>-15% SALT 10% WOOD 3%</u>	<u>142</u>	<u>15.2</u>

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____

BREAKDOWN _____ MAXIMUM _____

AVERAGE _____ FRACTURE GRADIENT _____

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

HYDRAULIC HORSEPOWER _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET 45.15 REASON SHUT IN

SUMMARY

PRESLUSH: BBL-GAL 17-3 TYPE W

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

TREATMENT: BBL-GAL _____ DISPL: BBL-GAL 81.8

CEMENT SLURRY: BBL-GAL 104

TOTAL VOLUME: BBL-GAL _____

REMARKS

Placed only 300 sk.

DATE 7-2-94

RECEIVED _____