

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- 055-21711-00-00

County Finney
NW/4-NE-SE Sec. 22 Twp. 25S Rge. 34 E/W

Operator: License # 5293

2310 Feet from S/N (circle one) Line of Section

Name: Helmerich & Payne, Inc.

990 Feet from E/W (circle one) Line of Section

Address 1579 E. 21st Street

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

City/State/Zip Tulsa, OK 74114

Lease Name Norma Well # 3-22

Purchaser:

Field Name Orange J. East

Operator Contact Person: Sharon LaValley

Producing Formation Dry

Phone (918) 742-5531

Elevation: Ground 2920 KB

Contractor: Name: Cheyenne Drilling

Total Depth 5150 PBTB

License: 5382

Amount of Surface Pipe Set and Cemented at 1946 Feet

Wellsite Geologist:

Multiple Stage Cementing Collar Used? Yes No

Designate Type of Completion
 New Well Re-Entry Workover

If yes, show depth set Feet

Oil SWD SLOW Temp. Abd.

If Alternate II completion, cement circulated from

Gas ENHR SIGW

feet depth to w/ sx cmt.

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

Drilling Fluid Management Plan PJA KGR 8/10/07
(Data must be collected from the Reserve Pit)

If Workover:

Chloride content ppm Fluid volume bbls

Operator:

Dewatering method used

Well Name:

Location of fluid disposal if hauled offsite:

Comp. Date Old Total Depth

Deepening Re-perf. Conv. to SWD

JAN 29 2001
KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Plug Back PBTB

Operator Name

Commingled Docket No.

Lease Name License No.

Dual Completion Docket No.

Quarter Sec. Twp. S Rng. E/W

Other (SWD or Inj?) Docket No.

County Docket No.

12/17/00 12/29/00 12/30/00
Spud Date or Date Reached TD Completion Date
Recompletion Date Recompletion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, 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 Sharon LaValley
Title Engineer Tech Date 1-22-01

Subscribed and sworn to before me this 22nd day of January, 2001.

Notary Public Jessa Jayne Hancock

Date Commission Expires August 17, 2002

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)

Operator Name Helmerich & Payne, Inc. Lease Name Norma Well # 3-22
 East County Finney
 Sec. 22 Twp. 25S Rge. 34 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:

Log Name Formation (Top), Depth and Datums Sample Top Datum

CASING RECORD <input type="checkbox"/> New <input 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	24	1946	HLC	560	2% CC 1/4# Flake
					Prem Plus	150	2% CC 1/4# Flake
Production	None						

Purpose: <input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			

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
	Dry Hole				

TUBING RECORD		Size	Set At	Packer At	Liner Run
					<input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.				Producing Method	
				<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)	
Estimated Production Per 24 Hours	Oil	Bbbls	Gas	MCF	Water Bbbls
					Gas-Oil Ratio 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) _____

JOB SUMMARY

ORDER NO. 70006

1035855

DEC. 18, 2000

REGION North America	NWA/COUNTRY MIDCON.	BDA / STATE KANSAS
MBU ID / EMP # MCL 0101 106322	EMPLOYEE NAME D. McLane	PSL DEPARTMENT CEMENTING
LOCATION LIBERAL	COMPANY CHEYENNE DRG	CUSTOMER REP / PHONE PHIL LOYD 316-272-1507
TICKET AMOUNT 12,670.33	WELL TYPE OIL	API / UWI #
WELL LOCATION SUBLETTE	DEPARTMENT CEMENTING	JOB PURPOSE CODE O10
LEASE / WELL # NORMA 3-32	SEC / TWP / RNG 22-25S-34W	

ORIGINAL

HES EMP NAME/EMP#(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#(EXPOSURE HOURS) HRS
D. McLane 106322 14	C. Garcia 19445 14		
J. Jackson 188624 14			
S. Engel 16699			
J. Lopez 19854			

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
54038-7941	60						
420975	60						
75738	30						

Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth _____

DATE	CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DEC 17 2000	1900	DEC 17 2000	0350	DEC 18 2000

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe		
Guide Shoe		
Centralizers 5-41	5	HES
Bottom Plug		
Top Plug ALUM	1	HES
Head PC	1	HES
Packer LIFT CLAMP	1	HES
Other RAFFEL	1	HES

WELL DATA

NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing N	24	8 3/8	0	1946	
Liner					
Liner					
Tbg/D.P.					
Tbg/D.P.					
Open Hole					SHOTS/FT.
Perforations					
Perforations					
Perforations					

MATERIALS

Treat Fluid	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb.
Prop. Type	Size	Lb.
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	In
NE Agent	Gal.	In
Fluid Loss	Gal/Lb	In
Gelling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
Breaker	Gal/Lb	In
Blocking Agent	Gal/Lb	
Perpac Balls	Qty.	
Other		
Other		
Other		
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
DEC 17	1	DEC 18	2	
DEC 18	7			
TOTAL	8	TOTAL	2	

HYDRAULIC HORSEPOWER
 ORDERED _____ Avail. _____ Used _____
AVERAGE RATES IN BPM
 TREATED _____ Disp. _____ Overall _____
CEMENT LEFT IN PIPE
 FEET 44.82 Reason SHE JOINT

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
1	560	HLC C	B	2% CC - 1/4" FLOCELE	2.06	12.3
2	150	PREM+	B	2% CC - 1/4" FLOCELE	1.34	14.8

Circulating _____	Displacement _____	Preflush: Gal - BBI _____	Type _____
Breakdown _____	Maximum _____	Load & Bkdn: Gal - BBI _____	Pad: BBI - Gal _____
Average _____	Frac Gradient _____	Treatment Gal - BBI _____	Disp: BBI - Gal 121
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slurr Gal - BBI _____	1-205 7-3512=2407
		Total Volume Gal - BBI _____	341 1/2

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____

THE INFORMATION STATED HEREIN IS CORRECT
 CUSTOMER'S REPRESENTATIVE SIGNATURE
 John H. Rich Reg # 3

JOB LOG

ORDER NO. 70006

1035855

DEC 18, 2000

REGION North America	NW/COUNTRY MIDCON	BDA / STATE KANSAS	COUNTY FINNEY
MBU ID / EMP # MCL 0101 106322	EMPLOYEE NAME D. McLANE	PSL DEPARTMENT CEMENTING	ORIGINAL
LOCATION LIBERTY	COMPANY CHEVENNE DRG	CUSTOMER REP / PHONE Mike Lloyd 316-272-1507	
TICKET AMOUNT 12,670.33	WELL TYPE OIL	API / UWI #	
WELL LOCATION SUSKETA	DEPARTMENT CEMENTING	JOB PURPOSE CODE 010	
LEASE / WELL # NORANT 3-32	SEC / TWP / RNG 22-25S-34W		

HES EMP NAME/EMP#(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#(EXPOSURE HOURS) HRS
D. McLane 106322/14	C. GARZA 194495 19		
J. Jackson 108627/14			

CHART NO.	TIME	RATE (GPM)	VOLUME (BBLS/GAL)	RUMPS		PRESS (psi)		JOB DESCRIPTION / REMARKS
				ST	RC	Tpg	Csg	
	1900							CALLED OUT
	2300							ON LOCATION - RIG UP BOTTOMS UP - P.O. OFF
	2315							HOLD PRELOCATION SAFETY MEETING -
								DEC. 18 -
	0200							SAVE ON T.I.H. CASING
	0350							HEAD ON - OIL W/ RIG PUMPS
	0420					2500		TEST LINES
	0425	6	205			150		MIX & PUMP LEAD SLURRY
	0500	4.5	35 1/2			200		MIX & PUMP TAIL SLURRY
	0510							DROP TOP PLUG -
	0530		111			450		SLOW TO 2 BBL/ MIN
	0540		121			500		LAND PLUG -
						675		RST UP - - CLOSE HEAD VALVES
								RELEASE PRESSURE -
								LEAVE HEAD OR CASING TO PRESSURE

ORIGINAL

TRILOBITE TESTING L.L.C.

OPERATOR : Helmerich & Payne Inc.
 WELL NAME: Norma 3-22
 LOCATION : 22-25-34 Finney, Co, Ks
 INTERVAL : 4892.00 To 4997.00 ft

DATE 12-27-00
 KB 2931.00 ft TICKET NO: 13653 DST #1
 GR 2920.00 ft FORMATION: morrow
 TD 4997.00 ft TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA
PF 30 Rec.	11058		2346			PF Fr. 0915 to 0945 hr
SI 60 Range (Psi)	4500.0	0.0	4995.0	0.0	0.0	IS Fr. 0945 to 1045 hr
SF 60 Clock (hrs)	12		alpin			SF Fr. 1045 to 1145 hr
FS 180 Depth (ft)	4992.0	0.0	4898.0	0.0	0.0	FS Fr. 1145 to 1445 hr

	Field	1	2	3	4	
A. Init Hydro	2446.0	0.0	2305.0	0.0	0.0	T STARTED 0630 hr
B. First Flow	100.0	0.0	24.0	0.0	0.0	T ON BOTM 0912 hr
B1. Final Flow	111.0	0.0	41.0	0.0	0.0	T OPEN 0915 hr
C. In Shut-in	681.0	0.0	665.0	0.0	0.0	T PULLED 1445 hr
D. Init Flow	122.0	0.0	48.0	0.0	0.0	T OUT 1800 hr
E. Final Flow	133.0	0.0	72.0	0.0	0.0	
F. Fl Shut-in	782.0	0.0	753.0	0.0	0.0	
G. Final Hydro	2435.0	0.0	2263.0	0.0	0.0	
Inside/Outside	1		0			

TOOL DATA

Tool Wt.	5000.00 l
Wt Set On Packer	26000.00 l
Wt Pulled Loose	105000.00
Initial Str Wt	80000.00 l
Unseated Str Wt	82000.00 l
Bot Choke	0.75 i
Hole Size	7.88 i
D Col. ID	2.25 i
D. Pipe ID	3.80 i
D.C. Length	708.00 f
D.P. Length	4249.00 f

RECOVERY

Tot Fluid 80.00 ft of 80.00 ft in DC and 0.00 ft in DP
 80.00 ft of o c m 15%oil 85%mud
 340.00 ft of gas in pipe
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 1600.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

I.O.- surface blow built to 2 1/2" in.

I.S.I.- No return

F.F.- 1/2" in. @ open built to 6" in.

F.S.I.- No return

SAMPLES:

SENT TO:

MUD DATA

Mud Type	chem
Weight	9.00
Vis.	50.00
W.L.	7.60
F.C.	0.00
Mud Drop N	
Amt. of fill	0.00
Btm. H. Temp.	115.00
Hole Condition	good
% Porosity	0.00
Packer Size	6.75
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Shane McBride
Co. Rep.	Kris Kennedy
Contr.	Cheyenne
Rig #	3
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONV.

WELL NAME: Norma 3 22
 LOCATION : 22-25-34 Finney, Co, Ks
 TICKET No. 13653 D.S.T. No. 1 DATE 12-27-00
 TOTAL TOOL TO BOTTOM OF TOP PACKERS 30
 INTERVAL TOOL
 BOTTOM PACKERS AND ANCHOR 42
 TOTAL TOOL 72
 DRILL COLLAR ANCHOR IN INTERVAL
 D.C. ANCHOR STND.Stands Single Total
 D.P. ANCHOR STND.Stands 1 Single Total 63
 TOTAL ASSEMBLY 135
 D.C. ABOVE TOOLS.Stands12 Single Total 708
 D.P. ABOVE TOOLS.Stands Single 1 Total 4186
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5029
 TOTAL DEPTH 4997
 TOTAL DRILL PIPE ABOVE K.B. 32

REMARKS:
 Gas: .15 cubic ft
 Oil: 400 ml.
 Water:
 Mud: 2700 ml.
 Total: 4,000 ml.
 Pressure . 220psi

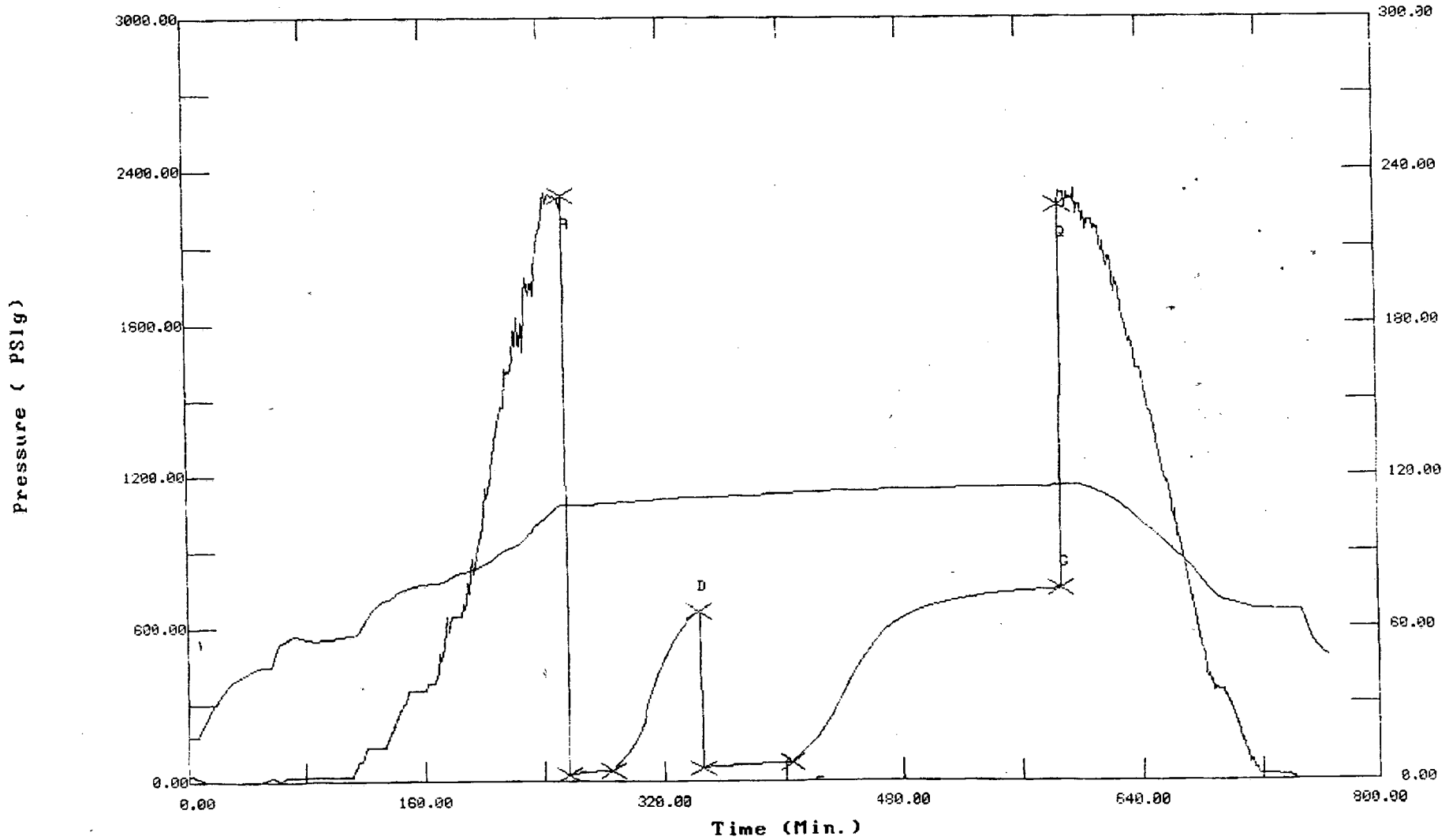
P.O. SUB	
C.O. SUB 1'	4861
S.I. TOOL 5'	4867
sampler 3'	4870
HMV 5'	4875
JARS 5'	4880
SAFETY JOINT 2'	4882
PACKER top	4887
PACKER bottom	4892
DEPTH 4892	
1'	4893
ANCHOR 5' perf	4898
alpine recorder	4898
29' perf	4927
1' c.o.	4928
63' drillpipe	4991
1' c.o.	4992
ak-1 recorder	4992
BULLNOSE 5' bullplug	4997
T.D.	4997

TEST HISTORY

13653 DST #1 Norma # 3-22 Helmerich & Payne Inc.

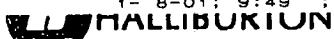
Flag Points

	t (Min.)	Pk PSig
A:	0.00	2305.28
B:	-0.00	24.18
C:	30.00	41.04
D:	58.00	665.53
E:	0.00	48.69
F:	59.00	72.38
G:	181.00	753.09
H:	0.00	2263.32



Temperature (DEG F)

ORIGINAL



JOB SUMMARY

ORDER NO. 70005

TICKET # 1059236

TICKET DATE 12-29-2000

REGION North America	NWA/COUNTRY USA	BDA / STATE KJ.	COUNTY F. SIMPSON
MBU ID / EMP # MCL10103 106304	EMPLOYEE NAME T. HOWARD	PSL DEPARTMENT ZE	ORIGINAL
LOCATION Liberal KJ	COMPANY HEP	CUSTOMER REP / PHONE MARTIN PAULY	
TICKET AMOUNT	WELL TYPE 01	API / UWI #	
WELL LOCATION Land S.W.C.C.	DEPARTMENT ZE	JOB PURPOSE CODE 115 CMT-P4A	
LEASE / WELL # NORMA 3-32	SEC / TWP / RNG 22-25-34		

HES EMP NAME/EMP#(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#(EXPOSURE HOURS) HRS
T. HOWARD 106304 8			
J. STANLEY 179974 8			
K. HOWARD 209549 8			

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
10219237	60						
52920-6612	30						

Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth _____

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
12-29-00	1630	12-29-00	12-29-00	12-30-00
	1630	2030	2230	0330

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe		
Guide Shoe		
Centralizers		
Bottom Plug		
Top Plug		
Head		
Packer		
Other		

WELL DATA

NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing					
Liner					
Liner				3200	
Tbg/D.P.	16.6	4 1/2	1015	3200	
Tbg/D.P.					
Open Hole					SHOTS/FT.
Perforations					
Perforations					
Perforations					

MATERIALS

Treat Fluid	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb.
Prop. Type	Size	Lb.
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	In
NE Agent	Gal.	In
Fluid Loss	Gal/Lb	In
Gelling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
Breaker	Gal/Lb	In
Blocking Agent	Gal/Lb	In
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				PT 11
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER

ORDERED _____ Avail. _____ Used _____

AVERAGE RATES IN BPM

TREATED _____ Disp. _____ Overall _____

CEMENT LEFT IN PIPE

FEET _____ Reason _____

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
1	225	PRM 6M	B.	6% GEL	1.65	131

Circulating _____	Displacement _____	Preflush: Gal - BBI _____	Type _____
Breakdown _____	Maximum _____	Load & Bkdn: Gal - BBI _____	Pad: BBI - Gal _____
Average _____	Frac Gradient _____	Treatment Gal - BBI _____	Disp: BBI Gal 30
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Sturr Gal - BBI 66	
		Total Volume Gal - BBI _____	

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____

THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER'S REPRESENTATIVE SIGNATURE _____

