

COPY

SIDE ONE

27-15-21w

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

Operator: License # 30444Name: Charter Production CompanyAddress 224 E. Douglas, Ste. 400City/State/Zip Wichita, KS 67202

Purchaser: _____

Operator Contact Person: Jerald W. RainsPhone (316) 264-2808Contractor: Name: Murfin Drilling Company, Inc.License: 30606Wellsite Geologist: Robert Smith

Designate Type of Completion

☒ New Well ☐ Re-Entry ☐ Workover☒ Oil ☐ SWD ☐ SIOW ☐ Temp. Abd.☐ Gas ☐ ENHR ☐ SIGW☐ Dry ☐ Other (Core, USV, 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 ☐ PSTD☐ Commingled ☐ Docket No. _____☐ Dual Completion ☐ Docket No. _____☐ Other (SWD or Inj?) ☐ Docket No. _____

6-07-93 06-15-93 06-24-93

Spud Date Date Reached TD Completion Date

API NO. 15- 195-22120County TregoSE NE SE Sec. 27 Twp. 15S Rge. 21 X E W1650 Feet from S/N (circle one) Line of Section330 Feet from E/W (circle one) Line of SectionFootages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)Lease Name J & L Land "B" Well # 1Field Name wildcatProducing Formation cherokeeElevation: Ground 2347' KB 2352'Total Depth 4340' PSTD 4275'Amount of Surface Pipe Set and Cemented at 219 FeetMultiple Stage Cementing Collar Used? ☐ Yes ☐ No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sk cat.

Drilling Fluid Management Plan ACT II 1-R-94
(Data must be collected from the Reserve Pit)Chloride content 59000 ppm Fluid volume 1000 bblsDewatering method used Evaporation & Deflocculation

Location of fluid disposal if hauled offsite: _____

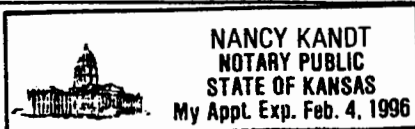
Operator Name RELEASED

Lease Name _____ License No. _____

Quarter Sec. Twp. OCI 12 1994 E/WCounty _____ Docket No. FROM CONFIDENTIAL

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 [Signature]Title Operations Manager Date 9/26/93Subscribed and sworn to before me this 26th day of September19 93Notary Public Nancy KandtDate Commission Expires 2/4/96

RECEIVED
STATE CORPORATION COMMISSION
SEP 27 1993
CONSERVATION DIVISION
Wichita, Kansas
(Specify)

K.C.C. OFFICE USE ONLY
F ☒ Letter of Confidentiality Received
C ☒ Wireline Log Received
C ☒ Geologist Report Received

Distribution
☒ KCC ☐ SWD/Rep
☒ KGS ☐ Plug

SIDE TWO

Operator Name Charter Production Company Lease Name J & L Land "B" Well # 1
 Sec. 27 Twp. 15S Rge. 21 ☐ East ☒ West
 County Trego

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.) ☐ Log Formation (Top), Depth and Datum ☐ Sample
 Name Top Datum
 Samples Sent to Geological Survey ☒ Yes ☐ No
 Cores Taken ☐ Yes ☒ No
 Electric Log Run ☒ Yes ☐ No (Submit Copy.)
 See Attached

List All E.Logs Run:

Dual Spaced Neutron, Computer Analysed Log, Dual Induction & Geologist's Log

PLEASE KEEP ALL INFORMATION CONFIDENTIAL

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 $\frac{1}{2}$ "	8-5/8"	23#	219'	60/40	150	2%Gel 3%CC
production	7-7/8"	5 $\frac{1}{2}$ "	1550	4339'	EA2 & 50/50	110	2%Gel
dv tool	7 7/8"	5 $\frac{1}{2}$ "	1550	1704'		485	

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
☐ Perforate				
☐ Protect Casing				
☐ Plug Back TD				
☐ 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	Cherokee 4210'-11'		

TUBING RECORD	Size	Set At	Packer At	Liner Run	☐ Yes ☐ No
	2 7/8"	4250'			
Date of First, Resumed Production, SWD or Inj.	Producing Method ☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (Explain)				
8/5/93					
Estimated Production Per 24 Hours	Oil 20 Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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

4210'-11'

WELL DATA

FIELD _____ SEC. 27 TWP. 15 RNG. 21 COUNTY Trego 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		15 1/2	5 1/2	0	4345	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES			JOB DATA			
TYPE AND SIZE	QTY.	MAKE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE	1-15		DATE	6-15	DATE	6-15
TIME	3:00		TIME	9:00	TIME	10:30
TIME			TIME		TIME	3:15

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE	1	Hawco
GUIDE SHOE		
CENTRALIZERS	6	"
BOTTOM PLUG		
TOP PLUG		
HEAD	1	"
PACKER	1	"
OTHER		

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 _____

PERSONNEL AND SERVICE UNITS			
NAME	UNIT NO. & TYPE	LOCATION	
King	B6633	11410	Prox
Kruger	36411	41412	"
Parker	5671	3046	"
Giacobetti	C8239	7198	"
Kuhn	3860	Hays	

DEPARTMENT Central

DESCRIPTION OF JOB Long string DU 100'

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

CUSTOMER REPRESENTATIVE X Robert Moorhead

HALLIBURTON OPERATOR M. Kruger

COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	110	FA-2		B	198.5/11 580 col seal	1.36	15.5
2	1150	50/50		B	1/4" Floet-K	1.28	13.75

PRESSURES IN PSI

SUMMARY

VOLUMES

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 20.25 REASON Shoe

PRESLUSH: BBL-GAL. Super Flush TYPE 1120 gal - 10% 1/2"

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

TREATMENT: BBL-GAL. _____ DISPL: BBL-GAL. _____

CEMENT SLURRY: BBL-GAL. 102

TOTAL VOLUME: BBL-GAL. 191.5

REMARKS _____

RECEIVED
STATE CORPORATION COMMISSION
JAN 18 1992

CONSERVATION DIVISION
Wichita Kansas

27-15-31W
Robert L. Moorehead Consulting Petroleum Engineer



ENGINEERING · WELLSITE SUPERVISION · DRILLING/COMPLETION/PRODUCTION

1410 WESTERN AVENUE • (316) 672-7737
PRATT, KANSAS 67124

J&L LAND B#1
Charter Production Co
COMPLETION REPORT

June 16, 1993

6/15/93 Ran 106 jts of used 5½", 15.5#, ST&C/LT&C casing and set @ 4339'. Used 6 centralizers, one cement basket, an auto-fill guide shoe, baffle plate and a Halco DV Tool (set @ 1704'). Halco cemented bottom stage with 110 sxs EA-2 cement (18% salt, 10% cal seal). Flush ahead of cement consisted of 20 bbls salt flush and 420 gals Super Flush. Plug down @ 11:31 AM and had complete circulation. Float valve held and DV Tool @ 1704' was opened and hole was circulated 1½ hrs waiting on bottom stage cement. Cemented top stage through DV Tool with 450 sxs 50/50 Pozmix cement (¼ #/sx Flocele, 2% gel) preceded with 20 bbls salt flush. Cement did not circulate to surface. Plug down @ 2:01 PM. No flow back through DV Tool and casing was left open. Found top of cement @ 140'. Mr. Kent Kuhn with KCC gave permission to 1" cement down 8 5/8" annulus. Ran 1" to 160' and circulated 35 sxs 50/50 Pozmix cement to surface. Set casing slips with casing in full tension. Release rig @ 7 PM.

5½ CASING LEFT ON LOCATION
1 jt LT&C - 41.79' (bad pin)
1 jt ST&C - 42.12' (OK)

Respectfully submitted,

Robert Moorehead
Robert Moorehead

KCC

OCT 21 1994

KCC

JUN 18 1993
HAYS, KS

RECEIVED
STATE CORPORATION COMMISSION

JAN 18 1994

CONSERVATION DIVISION
Wichita, Kansas

OIL WELL PIPE RECORD

JOINTS				WEIGHT	GRADE	COUPLING	LEASE NAME	LEASE NO.	WELL NO.
From No.	Thru No.								
1	69	15.5	I-used	LT&C	J & L LAND B#1	KELLY DR. BUSHING ELEV	COUNTY/PARISH	STATE	B#1
70	108	15.5	I-used	STR&C					
					2352	Trego	KS		
					CASING SIZE	O. D. OF HOLE	DATE CASING RUN		
					5 1/2	7 7/8	6/15/93		

JT. NO.	FEET	JT. NO.	FEET	JT. NO.	FEET	JT. NO.	FEET	JT. NO.	FEET	JT. NO.	FEET	JT. NO.	FEET	JT. NO.	FEET
1	20 25	31	42 26	61	39 50	91	42 22	121		151		181		211	
2	42 -	32	39 53	62	39 52	92	42 20	122		152		182		212	
3	41 53	33	39 60	63	39 55	93	42 10	123		153		183		213	
4	41 94	34	39 58	64	42 15	94	42 21	124		154		184		214	
5	25 62	35	42 16	65	39 48	95	42 18	125		155		185		215	
6	40 55	36	42 11	66	42 20	96	42 20	126		156		186		216	
7	41 80	37	39 49	67	42 19	97	42 23	127		157		187		217	
8	41 79	38	39 51	68	39 54	98	42 21	128		158		188		218	
9	42 27	39	42 16	69	40 10	99	42 18	129		159		189		219	
10	42 18	40	42 18	70	42 13	100	42 20	130		160		190		220	
11	42 25	41	40 17	71	42 18	101	42 20	131		161		191		221	
12	42 18	42	39 38	72	42 20	102	42 20	132		162		192		222	
13	42 20	43	42 20	73	42 15	103	42 18	133		163		193		223	
14	39 50	44	42 21	74	38 60	104	42 20	134		164		194		224	
15	41 81	45	42 20	75	42 31	105	41 90	135		165		195		225	
16	39 57	46	39 52	76	42 21	106	42 25	136		166		196		226	
17	40 45	47	40 78	77	42 20	107	42 24	137		167		197		227	
18	39 53	48	42 15	78	38 76	108	42 12	138	Out	168		198		228	
19	42 25	49	42 21	79	42 21	109		139		169		199		229	
20	42 08	50	42 18	80	40 94	110		140		170		200		230	
21	42 18	51	41 78	81	38 58	111		141		171		201		231	
22	41 84	52	39 -	82	42 23	112		142		172		202		232	
23	41 80	53	42 16	83	42 18	113		143		173		203		233	
24	39 50	54	42 18	84	37 60	114		144		174		204		234	
25	42 17	55	40 18	85	42 21	115		145		175		205		235	
26	39 56	56	42 20	86	42 20	116		146		176		206		236	
27	39 55	57	39 30	87	42 18	117		147		177		207		237	
28	42 22	58	40 20	88	44 85	118		148		178		208		238	
29	39 53	59	39 42	89	42 22	119		149		179		209		239	
30	42 17	60	42 16	90	42 21	120		150		180		210		240	
TOT. COL. 1	1202 27	TOT. COL. 2	1228 16	TOT. COL. 3	1236 58	TOT. COL. 4	759 22	TOT. COL. 5		TOT. COL. 6		TOT. COL. 7		TOT. COL. 8	

CEMENTING INFORMATION						SCRATCHERS		JOINTS LEFT OVER (Incl. Leading II or Cut Off)	
NO. SACKS	TYPE	ADDITIVES	CIRCULATING BEFORE CEMENTING	TYPE	NO. JOINTS	FOOTAGE			
485	50/50 Pozmax	2010 Gel, 1/4 #/sx Hoco	90 MIN.	None	2	83.91			
110	EA 2	1800 salt, 10% Cal Seal	30 MIN.						
PUMP PRESSURES	CIRCULATING	DISPLACING	WHEN PLUG HIT	FROM	TO	WEIGHT	GRADE		
						15.5	I-used		
DISPLACING PUMP	LBS.	LBS.	800	SPACING	NO.	COUPLING			
						LT&C			
PIPE ROTATED	RECIPROCATED	WORKED DURING	AND/OR AFTER CEMENTING	TOTAL TIME WORKED	MIN.				
☐	☐	☐	☐	0					
NO. PLUGS USED	RETURNING	CEMENT TOP	SHOE AUTO -	COLLAR	Baffle				
1	Full	170 - See Note	Fill@ 4338	plate@ 4318					
Cmt Bskt @ 1702		STRING WEIGHT	WEIGHT ON HANGER						
DUTool @ 1704		52,000 LBS.	52,000 LBS.						
SIGNATURE	COMPANY REPRESENTATIVE								
Robert Moorehead									
GRAND TOTAL	4426.23								
* Note: Cmt @ 140 after top stage. 1" to 160' & circ to surf w/ 35 SXS 5/8" ID									

JOB LOG

FORM 2013 R-2

WELL NO. B-1 LEASE JTA Road TICKET NO. 105400
 CUSTOMER Charter Prod Co PAGE NO.
 JOB TYPE Long string DATE 6-15-93

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	8:00							on location
	8:30							Start casing
	10:30							Break cir
	10:55		0		1		400	Pump 20 BBL Salt flush
			20		1			" 5 " water
			25		1			Pump 10 " Super Flush
			35		1			Start 5 " water
	11:03	11	110		1		500	Start to mix EA-2
	11:10		66				800	Cement mix
								Plug Bot Hole
								wash out line Drop plug
	11:15		66		1		200	Start Disp
	11:31		172		1		1100	Load plug
								check float ok
	11:37				1			Drop opening plug
	11:48				1		1300	open DV Tool 1703 foot
								cir 2 hr
	2:31		0					Pump Salt flush 20 BBL
	2:36	6.3	210				300	Start to mix cement 5%
	2:52	6.3	132				175	Cement mix wash out line
								Pull Pinch Plug
	2:55						200	Start Disp
	3:00						1900	Plug Down close DV
								Block Slow Back ok
								wash up
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JOB LOG

 WELL NO. B-1 LEASE Jtk Road TICKET NO. 20222
 CUSTOMER Charter Prod. Co PAGE NO. _____
 JOB TYPE Long string DATE 6-15-93

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	9:00							on location
	9:30							Start casing
	10:30							Break cir
	10:55		0		1		400	Pump 20 BBL Salt flush
			20		1			" 5 " water
			25		1			Pump 10 " Super Flush
			35		1			Start 5 " water
	11:03	4	110		1		500	Start to mix EA-2
	11:10		66				300	Cement mix
								Plug Bot Hole
								wash out line Drop plug
	11:15		66		1		200	Start Disp
	11:31		172		1		1100	hand plug
								check float ok
	11:37				1			Drop opening plug
	11:48				1		1300	open DU Tool 1703 feet
								cir 2 hr
	2:31		0					Pump Salt flush 20 BBL
	2:36	6.3	20				300	Start to mix cement 50%
	2:52	6.3	122				175	Cement mix wash out line
								Pull Pin on Plug
	2:55						260	Start Disp
	3:00						1900	Plug Down close DU
								Back Flow Back ok
								Wash up
	3:15							Back up
								No cement to SurSec
								look like Salt flush
								centralizers - 1-2-3-6-66
								DU Tool Jt 65 BBL
								order 50' 50% Rm
								160 feet of 1" fill up
								8 5/8 & 5 1/2 took 35 sack
								Cement to top wash up
	4:30							Back up Thank you

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 STATE CORPORATION COMMISSION
 JUN 18 1994
 CONSERVATION DIVISION
 Wichita, Kansas

Robert L. Moorehead Consulting Petroleum Engineer



ENGINEERING · WELLSITE SUPERVISION · DRILLING/COMPLETION/PRODUCTION

RECEIVED

1410 WESTERN AVENUE • (316) 672-7737
PRATT, KANSAS 67124

JUN 16 1993

API 15195-221200000

J&L LAND B#1
Charter Production Co
COMPLETION REPORT

June 16, 1993

6/15/93 Ran 106 jts of used 5½", 15.5#, ST&C/LT&C casing and set @ 4339'. Used 6 centralizers, one cement basket, an auto-fill guide shoe, baffle plate and a Halco DV Tool (set @ 1704'). Halco cemented bottom stage with 110 sxs EA-2 cement (18% salt, 10% cal seal). Flush ahead of cement consisted of 20 bbls salt flush and 420 gals Super Flush. Plug down @ 11:31 AM and had complete circulation. Float valve held and DV Tool @ 1704' was opened and hole was circulated 1½ hrs waiting on bottom stage cement. Cemented top stage through DV Tool with 450 sxs 50/50 Pozmix cement (¼ #/sx Flocele, 2% gel) preceded with 20 bbls salt flush. Cement did not circulate to surface. Plug down @ 2:01 PM. No flow back through DV Tool and casing was left open. Found top of cement @ 140'. Mr. Kent Kuhn with KCC gave permission to 1" cement down 8 5/8" annulus. Ran 1" to 160' and circulated 35 sxs 50/50 Pozmix cement to surface. Set casing slips with casing in full tension. Release rig @ 7 PM.

5½ CASING LEFT ON LOCATION

1 jt LT&C - 41.79' (bad pin)
1 jt ST&C - 42.12' (OK)

Respectfully submitted,

Robert Moorehead
Robert Moorehead

RELEASED

OCT 12 1994

FROM CONFIDENTIAL

RELEASED

OCT 12 1994

FROM CONFIDENTIAL

RECEIVED

STATE CORPORATION COMMISSION

JAN 06 1994

CONSERVATION DIVISION
Wichita, Kansas

OIL WELL PIPE RECORD

OPERATOR

CHARTER PRODUCTION

LEASE NO.

WELL NO.

STATE

DATE CASING RUN

LEASE NAME

15-195-22120

KELLY DR. BUSHING ELEV

COUNTY/PARISH

CASING SIZE

O. D. OF HOLE

JOINTS

From No.

WEIGHT

GRADE

COUPLING

Thru No.

J & L LAND B#1

B#1

2352

Trego

KS

5 1/2

7 7/8

6/15/93

JT. NO.	FEET	JT. NO.	FEET	JT. NO.	FEET	JT. NO.	FEET	JT. NO.	FEET	JT. NO.	FEET	JT. NO.	FEET	JT. NO.	FEET
1	20 25	31	42 26	61	39 50	91	42 22	121		151		181		211	
2	42 -	32	39 53	62	39 52	92	42 20	122		152		182		212	
3	41 53	33	39 60	63	39 55	93	42 10	123		153		183		213	
4	41 94	34	39 58	64	42 15	94	42 21	124		154		184		214	
5	25 62	35	42 16	65	39 48	95	42 18	125		155		185		215	
6	40 55	36	42 11	66	42 20	96	42 20	126		156		186		216	
7	41 80	37	39 49	67	42 19	97	42 23	127		157		187		217	
8	41 79	38	39 51	68	39 54	98	42 21	128		158		188		218	
9	42 27	39	42 16	69	40 10	99	42 18	129		159		189		219	
10	42 18	40	42 18	70	42 13	100	42 20	130		160		190		220	
11	42 25	41	40 17	71	42 18	101	42 20	131		161		191		221	
12	42 18	42	39 38	72	42 20	102	42 20	132		162		192		222	
13	42 20	43	42 20	73	42 15	103	42 18	133		163		193		223	
14	39 50	44	42 21	74	38 60	104	42 20	134		164		194		224	
15	41 81	45	42 20	75	42 31	105	41 90	135		165		195		225	
16	39 57	46	39 52	76	42 21	106	42 25	136		166		196		226	
17	40 45	47	40 78	77	42 20	107	42 24	137		167		197		227	
18	39 53	48	42 15	78	38 76	108	42 12	138	Out	168		198		228	
19	42 25	49	42 21	79	42 21	109		139		169		199		229	
20	42 08	50	42 18	80	40 94	110		140		170		200		230	
21	42 18	51	41 78	81	38 58	111		141		171		201		231	
22	41 84	52	39 -	82	42 23	112		142		172		202		232	
23	41 80	53	42 16	83	42 18	113		143		173		203		233	
24	39 50	54	42 18	84	37 60	114		144		174		204		234	
25	42 17	55	40 18	85	42 21	115		145		175		205		235	
26	39 56	56	42 20	86	42 20	116		146		176		206		236	
27	39 55	57	39 30	87	42 18	117		147		177		207		237	
28	42 22	58	40 20	88	44 85	118		148		178		208		238	
29	39 53	59	39 42	89	42 22	119		149		179		209		239	
30	42 17	60	42 16	90	42 21	120		150		180		210		240	
TOT. COL. 1	1202 27	TOT. COL. 2	1228 16	TOT. COL. 3	1236 58	TOT. COL. 4	759 22	TOT. COL. 5		TOT. COL. 6		TOT. COL. 7		TOT. COL. 8	

CEMENTING INFORMATION

NO. SACKS	TYPE	ADDITIVES	CIRCULATING BEFORE CEMENTING
485	50/50 Pozmax	2010 Gel, 1/4 #/sx Hacle	90 MIN.
110	EA 2	1800 salt, 10% Cal Seal	30 MIN.
PUMP PRESSURES	CIRCULATING	DISPLACING	MAXIMUM
	LBS.	LBS.	LBS.
		800	1000
DISPLACING PUMP			MIX AND PUMP TIME
			MIN.
PIPE ROTATED	RECIPROCATED	WORKED DURING	AND/OR AFTER CEMENTING
☐	☐	☐	☐
NO. PLUGS USED	REMAINING	CEMENT TOP	SHOE auto-
1	Full	* 140 - See Note	COLLAR Baffle
Cmt Bskt @ 1702	Full	est 3800	plate @ 4318
DV Tool @ 1704		STRING WEIGHT	WEIGHT ON HANGER
		52,000 LBS.	52,000 LBS.
SIGNATURE		COMPANY REPRESENTATIVE	
Robert Moorehead			

SCRATCHERS

TYPE	NO. JOINTS	FOOTAGE
None	2	83.91
FROM	TO	WEIGHT
		15.5
SPACING	NO.	GRADE
		I-used
CENTRALIZERS		COUPLING
		LT8C & ST8C
TYPE	RAN	JOINTS
6 Halco S-4	4342.32	106
FROM	TO	SET AT
1700	4318	4339'
DATE AND TIME DELIVERED		REACHED BOTTOM
6/15/93		6/15/93 10:10AM
SPACING		
Clogs: 1, 2, 3, 5, 6		
Above DV Tool		

* Note: Cmt @ 140 after top stage. 1" to 160' & circ to surf w/ 35 sxs 50/50