

CONFIDENTIAL

RELEASED

JUN 18 2003

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM

Form ACO-1

September 1999

Form Must Be Typed

WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Operator: License # 5447
Name: OXY USA Inc.
Address: P.O. Box 2528
City/State/Zip: Liberal, KS 67905
Purchaser: PEPL
Operator Contact Person: Vicki Carder
Phone: (620) 629-4200
Contractor: Name: Abercrombie RTD, Inc.
License: 30684
Wellsite Geologist: Tom Hefflin
Designate Type of Completion:
☒ New Well ☐ Re-Entry ☐ Workover
☐ Oil ☐ SWD ☐ SLOW ☐ Temp. Abd.
☒ Gas ☐ ENHR ☐ SIGW
☐ Dry ☐ Other (Core, WSW, Expl, Cathodic, etc)
If Workover/Re-entry: Old Well Info as follows:
Operator: OXY USA, Inc.
Well Name: _____

API No. 15 - 129-21658-0000
County: Morton
NE - NW - NE Sec 13 Twp. 34 S. R. 40W
330 feet from S (N circle one) Line of Section
1650 feet from E W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Henshaw A Well #: 1
Field Name: _____
Producing Formation: Morrow
Elevation: Ground: 3326 Kelly Bushing: 3339
Total Depth: 6650 Plug Back Total Depth: 6559
Amount of Surface Pipe Set and Cemented at 1748 feet
Multiple Stage Cementing Collar Used? ☒ Yes ☐ No
If yes, show depth set 3118
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

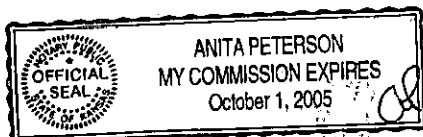
Original Comp. Date: _____ Original Total Depth: _____
Deepening Re-perf. Conv. To Enhr./SWD
Plug Back Plug Back Total Depth
Commingled Docket No. _____
Dual Completion Docket No. _____
Other (SWD or Enhr.?) Docket No. _____
02/05/02 02/22/02 03/13/02
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content 1200 ppm Fluid volume 1800 bbls
Dewatering method used Evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ ☐ East ☒ West
County: _____ Docket No.: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 6702, 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 of 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: Vicki Carder
Title: Capital Projects Date May 29, 2002
Subscribed and sworn to before me this 29th day of May
20 02
Notary Public: Anita Peterson
Date Commission Expires: Oct. 1, 2005



KCC Office Use Only

YES Letter of Confidentiality Attached
If Denied, Yes ☐ Date: _____
☒ Wireline Log Received
☒ Geologist Report Received
____ UIC Distribution

Side Two

Operator Name: OXY USA Inc. Lease Name: Henshaw A Well #: 1Sec. 13 Twp. 34 S. R. 40W ☐ East ☐ West County: Morton

Instructions: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken (Attach Additional Sheets)	☒ Yes ☐ No	☒ Log	Formation (Top), Depth and Datum	☐ Sample
Samples Sent to Geological Survey	☒ Yes ☐ No	Name	Top	Datum
Cores Taken	☐ Yes ☒ No	Heebner	4058	-719
Electric Log Run (Submit Copy)	☒ Yes ☐ No	Lansing	4161	-822
List All E. Logs Run:	Sonic	Microlog	Marmaton	4880
Neutron	Induction	Geological Report	Cherokee	5201
			Morrow	5687
			Chester	6242
			Ste. Genevieve	6398
			St. Louis	6493
				-1541
				-1862
				-2348
				-2903
				-3059
				-3154

CASING RECORD ☒ New ☐ Used							
Report all strings set-conductor, surface, 1 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
Conductor					C		
Surface	12 1/4	8 5/8	24	1748	C	750	2% CC, 1/8# Polyflake
Production	7 7/8	5 1/2	15.5	6650	C	270	5# CalSeal, 5 # Gilsomite 10% Salt, .5% Haled

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
☐ Perforate				
☒ Protect Casing	1500-3118	A	200	65/36/6
☐ 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
6	6156-6205		

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 7/8	6087		☐ Yes ☒ No
Date of First, Resumed Production, SWD or Enhr. 03/19/02		Producing Method			
		☒ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)			
Estimated Production Per 24 Hours	Oil BBLS	Gas Mcf	Water Bbls	Gas-Oil Ratio	Gravity
	55	9426	3	171381	

Disposition of Gas

METHOD OF COMPLETION

Production Interval

☐ Vented ☒ Sold ☐ Used on Lease
(If vented, Submit ACO-18)

☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled

☐ Other (Specify)

HALLIBURTON		JOB SUMMARY		02/23/02	
REGION	North America Land	NNA / COUNTRY	Mid Continent	BDA / STATE	AKS
WBU ID / EMPL #	MCLI0101 232712	HES EMPLOYEE NAME	LYNDON WHITE	PSL DEPARTMENT	Cementing Services
LOCATION	CONFIDENTIAL	COMPANY	OXY-USA	CUSTOMER REP / PHONE	CAL WYLIE 629-5656
TICKET AMOUNT	CONFIDENTIAL	WELL TYPE		APIUM #	ORIGINAL
WELL LOCATION	ROLLAKS	DEPARTMENT	Cement	SAP BOMB NUMBER	7523
LEASE NAME	HENSHAW	Well No.	A-1	HES FACILITY (CLOSEST TO WELL SITE)	HUGOTON KS
SEC / TWP / RNG		13-34S-40W			

HES EMP NAME / EMP # / (EXPOSURE HOURS)	HRS	HRS	HRS	HRS
White, L - 232712	11.0			
Tate, N - 105953	11.0			
Oilphant, C - 243055	11.0			

RELEASED RECEIVED KCC MAY 29 2002

JUN 18 2002 MAY 31 2002

HES UNIT #S / (R/T MILES)	R/T MILES	R/T MILES	R/T MILES	R/T MILES
420995	90			
10251401	90			
540291/75821	17			

FROM CONFIDENTIAL WICHITA

Form. Name _____ Type: _____

Form. Thickness _____ From _____ To _____

Packer Type _____ Set At _____

Bottom Hole Temp. _____ Pressure _____

Retainer Depth _____ Total Depth _____

Tools and Accessories

Type and Size	Qty	Make
BAKER PORT COLLAR 5 1/2	1	BAKER
INSERT W/ FILLUP	1	HOWCO
Centralizers 11-FM/5-S4	16	HOWCO
Top Plug 5W	1	HOWCO
CABLE WALL CLEANERS	20	HOWCO
Limit clamp	1	HOWCO
BASKET CANVAS	1	HOWCO
Guide Shoe REG	1	HOWCO
BTM PLUG 5W	1	HOWCO

Materials

Mud Type	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	
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		

Date	Called Out	On Location	Job Started	Job Completed
	02/23/2002	02/23/2002	02/23/2002	02/23/2002
Time	0130	0430	1300	1412

Well Data

New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing NEW	15.5	5 1/2		KB	6,651	
Liner						
Liner						
Tubing						
Drill Pipe						
Open Hole				KB	6,650	Shots/Ft.
Perforations						
Perforations						

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
2/23	11.0	2/23	2.0	See Job Log
Total	11.0	Total	2.0	

Ordered	Hydraulic Horsepower Avail.	Used
Treating	Average Rates in BPM Disp.	Overall
Feet 89	Cement Left in Pipe Reason	SHOE JOINT

Cement Data

Stage	Sacks	Cement	Bulk/Sks	Additives	W/Rq.	Yield	Lbs/Gal
LEAD	30	50/50 POZ H	Bulk	5#CALSEAL, 10%SALT, 5#GILSONITE, .5%HALAD-322	42.80	6.53	10.00
TAIL	240	50/50 POZ H	Bulk	5#CALSEAL, 10%SALT, 5#GILSONITE, .5%HALAD-322	6.35	1.50	13.8
RAT	25	50/50 POZ H	Bulk	5#CALSEAL, 10%SALT, 5#GILSONITE, .5%HALAD-322	6.35	1.50	13.8
			Bulk				

Summary

Circulating Breakdown	Displacement MAXIMUM	Preflush: BBI	7 BBL	Type: KCL WATER
		Load & Bkdn: Gal - BBI		Pad:Bbl -Gal 156
Average	Frac. Gradient	Treatment: Gal - BBI		Disp:Bbl 156.00
Shut In: Instant	5 Min. 15 Min.	Cement Slurry BBI	35/64	
		Total Volume BBI	#VALUE!	

THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER REPRESENTATIVE _____

SIGNATURE _____

CONFIDENTIAL

ORIGINAL

HALLIBURTON		JOB LOG				TICKET #	TICKET DATE
REGION North America Land		NWA / COUNTRY Mid Continent		BDA / STATE KS		COUNTY MORTON	
NBU ID / EMP. # MCL10101 232712		H.E.S. EMPLOYEE NAME LYNDON WHITE		PSL DEPARTMENT Cementing Services			
LOCATION Liberal		COMPANY OXY-USA		CUSTOMER REP / PHONE CAL WYLIE 629-5656			
TICKET AMOUNT		WELL TYPE		APU/UMI #			
WELL LOCATION ROLLA KS		DEPARTMENT Cement		JOB PURPOSE CODE Cement Production Casing			
LEASE NAME HENSHAW		SEC / TWP / RNG 13-34S-40W		WELL FACILITY (CLOSEST TO WELL #) HUGGOTON KS			
HES EMP NAME/EMP # (EXPOSURE HOURS)		HRS		HES EMP NAME/EMP # (EXPOSURE HOURS)		HRS	
White, L - 232712		11		KCC			
Tate, N - 105953		11					
Oilphant, C - 243055		11		MAY 29 2002			
Chart No.	Time	Rate (BPM)	Volume (BOL)(GAL)	Rate N2	Press.(PSI) CSG.	Tbg	Job Description / Remarks
	0130						CALLED OUT
	0430						ON LOCATION
	0445						SAFETY MEETING
	0500						RIG UP PUMP TRUCK
	0430						TRIPPING OUT OF HOLE
	0600						RIG UP CASERS
	0630						START RUNNING CASING//PORT COLLAR @3118//JOINT 80
	1045						ON BOTTOM//DROP BALL
	1100						HOOK UP TO RIG TO CIRCULATE MIN. 2 HRS//& RECIPROC.
	1245						SAFETY MEETING
	1250						RIG UP P/C SWITCH TO HALLIBURTON CEMENT LINE
	1259	1.0	0		2500		TEST LINES// START SPACER KCL WATER
	1301		1.0				RELEASE PLUG//SHUTDOWN RELOAD TOP PLUG
	1308	2.0	7.0		123		CONTINUE PUMPING KCL WATER
	1311	4.5	34.9		125		START LEAD @ 10#
	1320	6.0	64.1		130		START TAIL @ 13.8#
	1331						WASH PUMP AND LINES//RELEASE TOP PLUG
	1333	7.0	156.2		150		START DISPLACEMENT
	1358	6.8			210		CATCH CEMENT
	1406	2.0	136.0		710		SLOW RATE
	1411	2.0	156.0		800//1200		BUMP PLUG
	1412						RELEASE PRESSURE
	1412						FLOAT HELD
	1413						END JOB
	1420						SAFETY MEETING
	1430						RIG DOWN
	1500						WASH UP PUMP TRUCK
							THANKS FOR CALLING HALLIBURTON
							LYNDON AND CREW
							USED WELD-A ON TOP AND BOTTOM OF PORT COLLAR

HALLIBURTON		JOB SUMMARY		SALES ORDER NUMBER 1737559	TICKET DATE 02/07/02
REGION NORTH AMERICA LAND		NMA / COUNTRY Mid Continent		SDA / STATE KS	COUNTY MORTON
MCI ID / EMP # MCLI 0118/198516		H.E.S. EMPLOYEE NAME JASON CLEMENS		PSL DEPARTMENT Cementing Services	
LOCATION ROLLA		COMPANY OXY-USA		CUSTOMER REP / PHONE GREG FILLPOT	
TICKET AMOUNT \$9,151.14		WELL TYPE OIL		APUAMI #	
WELL LOCATION ROLLA		DEPARTMENT ZI JUN 18 2002		SAP BOMB NUMBER 7521	Description Cement Surface Casing
LEASE NAME HENSHAW		Well No. A-1	SEC / TWP / RNG 13-34S-40W	FES FACILITY (CLOSEST TO WELL SITE) LIBERAL KS.	

HES EMP NAME / EMP # / (EXPOSURE HOURS)	HRS	HES EMP NAME / EMP # / (EXPOSURE HOURS)	HRS	HES EMP NAME / EMP # / (EXPOSURE HOURS)	HRS
CLEMENS, J 198516	8.0	ROMERO, M 240051	8.0		
Archuleta, M - 226383	8.0				
Cochran, M - 217398	8.0				
Spangler, M - 211476	8.0				
HES UNIT #S / (R / T MILES)	R / T MILES	HES UNIT #S / (R / T MILES)	R / T MILES	HES UNIT #S / (R / T MILES)	R / T MILES
421269	49				
10251403	49				
10243558/75821	17				
54024/6612	17				

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

Date	Called Out	On Location	Job Started	Job Completed
	02/07/2002	02/07/2002	02/07/2002	02/07/2002
Time	700	1000	1737	1845

Type and Size	Qty	Make
Float Collar		HES
Float Shoe		
Centralizers	5	
Top Plug	1	
HEAD	1	
Limit clamp	1	
Weld-A		
Guide Shoe	1	
BTM PLUG		

	New/Used	Weight	Size	Grade	From	To	Max Allow
Casing	N	24.0	8 5/8		0	1,750	
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole							Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials			
Mud Type	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		
Perfpac Balls	Qty.		
Other			
Other			
Other			
Other			

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
2/7	8.0	2/7	2.0	
Total	8.0	Total	2.0	

Ordered _____ Hydraulic Horsepower _____
 Treating _____ Avail. _____ Used _____
 Feet 45 _____ Average Rates in BPM _____
 Reason _____ Cement Left in Pipe _____ Overall _____
 SHOE JOINT

Cement Data							
Stage	Sacks	Cement	Bulk/Sks	Additives	W/Rq.	Yield	Lbs/Gal
1	600	HLC C	Bulk	2% CC, 1/8# POLLY FLAKE	11.60	2.05	12.30
2	150	PP	Bulk	2% CC, 1/8# POLLY FLAKE	6.30	1.34	14.8
3			Bulk				
4			Bulk				

Circulating Breakdown		Displacement		Preflush: BBI		Type:	
		MAXIMUM		Load & Bkdn: Gal - BBI		Pad: Bbl - Gal	
Average		Frac. Gradient		Treatment: Gal - BBI		Disp: Bbl	
Shut In: Instant		5 Min.		Cement Slurry BBI		LC 219 TC 36	
		15 Min.		Total Volume BBI		108.00	

THE INFORMATION STATED HEREIN IS CORRECT
 CUSTOMER REPRESENTATIVE _____
 SIGNATURE _____

~~CONFIDENTIAL~~

HALLIBURTON		JOB LOG		TICKET #		TICKET DATE	
REGION		NMA / COUNTRY		BDA / STATE		COUNTY	
NORTH AMERICA LAND		Mid Continent		KS		MORTON	
NBU ID / EMPL #		H.E.S. EMPLOYEE NAME		PSL DEPARTMENT			
MCLI 0118/198516		JASON CLEMENS		Cementing Services			
LOCATION		COMPANY		CUSTOMER REP / PHONE			
ROLLA		OXY-USA		GREG FILLPOT			
TICKET AMOUNT		WELL TYPE		APALUM #			
\$9,151.14		OIL					
WELL LOCATION		DEPARTMENT		JOB PURPOSE CODE			
ROLLA		ZI		Cement Surface Casing			
LEASE NAME		SEC / TWP / RNG		HES FACILITY (CLOSEST TO WELL #)			
HENSHAW		A-1		13-34S-4UW		LIBERAL KS.	
HES EMP NAME/EMP # (EXPOSURE HOURS)		HES EMP NAME/EMP # (EXPOSURE HOURS)		HES EMP NAME/EMP # (EXPOSURE HOURS)		HES EMP NAME/EMP # (EXPOSURE HOURS)	
CLEMENS, J 198516		ROMERO, M 240051					
Archuleta, M - 226383							
Cochran, M - 217398							
Spangler, M - 211476							
Chart No.	Time	Rate (BPM)	Volume (BBL/GAL)	Rate (G)	Press. (PSI) CSO. Tbg	Job Description / Remarks	
	1100					ARRIVED ON LOCATION	
	1130					HOLD PRE-JOB SAFETY MEETING	
	1145					SPOT EQUIPT.	
	1600					START F.E.	
	1700					HOOK UP CIR IRON & CIR W/ RIG	
	1737				2500	PRESSURE TEST	
	1740	6.0	219.0		200	START LEAD AT 12.3#	
	1814	6.0	36.0		250	START TAIL AT 14.8#	
	1817					DROP PLUG	
	1819	7.0	108.0		50	START DISP	
	1828	7.0			250	CAUGHT CEMENT	
	1839	2.0	98.0		550	SLOW RATE	
	1844	2.0	108.0		900	LAND PLUG	
						CIR 45 BBL'S TO PIT	
						THANKS JASON & CREW.	

ALLIED CEMENTING CO., INC. 09045

Federal Tax I.D.# 48-0727860

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

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SERVICE POINT

ORIGINAL

Medicine FDC

DATE 3-7-02	SEC 13	TWP. 34S	RANGE 40W	CALLED OUT 2:00 A.M.	ON LOCATION 7:30 A.M.	JOB START 8:30 A.M.	JOB FINISH 9:30 A.M.
LEASE Henshaw		WELL # A-1	LOCATION Rolla Kansas 25		COUNTY Madison	STATE KS	
OLD OR NEW (Circle one)			1E S. 1/4				

RELEASED

CONTRACTOR Best Well		OWNER OXY USA INC.	
TYPE OF JOB Port Coffer		JUN 18 2003	
HOLE SIZE 7 1/2	T.D.	CEMENT	
CASING SIZE 5 1/2	DEPTH 3118	AMOUNT ORDERED 2005x 65:35.6t	
TUBING SIZE 2 3/8	DEPTH 3118	1/4" Flo-Seal	
DRILL PIPE	DEPTH		
TOOL	DEPTH		
PRES. MAX 1000	MINIMUM -	COMMON	@
MEAS. LINE	SHOE JOINT	POZMIX	@
CEMENT LEFT IN CSG		GEL	@
PERFS		CHLORIDE	@
DISPLACEMENT Fresh H ₂ O 17 1/2 BBLs		Al W. Lin weight 2005x	@ 7.35 1470.00
		Flo-Seal	@ 1.40 70.00
EQUIPMENT			
PUMP TRUCK	CEMENTER David W.	HANDLING	@ 11.00 231.00
#302	HELPER Dwight	MILEAGE	@ 40/54.1mi 252.00
BULK TRUCK			
#353	DRIVER Mark H.		
BULK TRUCK			
#	DRIVER		

KCC

RECEIVED

TOTAL 2023.00

MAY 29 2002

MAY 31 2003

REMARKS:

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KCC WICHITA

SERVICE

PST Port Coffer To 1000
Take Injection Rate 4 BBLs min at 500
PST Mix 2005x 65:35.6t 1/4" Flo-Seal
Displace w/ Fresh H₂O To T Port Coffer
To 1000 PST. Reverse out w/ 40
BBL Wash up Rig Down

DEPTH OF JOB 3118	
PUMP TRUCK CHARGE	650.00
EXTRA FOOTAGE	@
MILEAGE 30 mi	@ 3.00 90.00
PLUG	@
	@
	@

TOTAL 740.00

CHARGE TO: OXY USA INC.

STREET

CITY STATE ZIP

FLOAT EQUIPMENT

	@
	@
	@
	@
	@

TOTAL

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 is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX

TOTAL CHARGE 2763.00

DISCOUNT 276.30 2486.70 IF PAID IN 30 DAYS

SIGNATURE X [Signature]

X [Signature]

PRINTED NAME



CEMENT DATA:

ORIGINA

Spacer Type: _____

Amt. _____ Skis Yield _____ ft³/sk Density _____ PPG _____

LEAD: Pump Time _____ hrs. Type 65:35.16+
1/4" Flt Seal : _____ Excess _____

Amt. 200 Sks Yield 1.98 ft³/sk Density 12.8 PPG

TAIL: Pump Time _____ hrs. Type _____

_____ Excess _____

Amrt. _____ Sks Yield _____ ft³/sk Density _____ PPG

WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls.

Pump Trucks Used Dwight W. 302

Bulk Equip. Mark H 353

Drill Pipe: Size _____ Weight _____ Collar _____ **CONFIDENTIAL**
Open Hole: Size 2 7/8 T.D. 3108 ft. P.B. to _____ ft.

CAPACITY FACTORS:

Casing: Bbbs/Lin. ft. 00579 Lin. ft./Bbl. 172.8

Open Holes: Bbls/Lin. ft. 10602 Lin. ft./Bbl. 16.5990

Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____

Annulus: Bbls/Lin. ft. 10.158 Lin. ft./Bbl. 6.340

Bbls/Lin. ft. _____ Lin. ft./Bbl. _____

Perforations: From _____ ft. to _____ ft. Amt. _____

[illegible]

COMPANY REPRESENTATIVE: Col. Wilcox

~~RELEASED~~

Float Equip: Manufacturer _____

Shoe: Type _____ JUN 18 2003 _____ Depth _____

Float: Type _____ Depth _____

Centralizers: Quantity EPDM Plugs Top Central Central Btm. _____

Stage Collars FROM CONFIDENTIAL

Special Equip. _____

Disp. Fluid Type _____ Amt. _____ Bbls. Weight _____ PPG _____

Mud Type _____ Weight _____ PPG _____

[illegible]

COMPANY REPRESENTATIVE: Col. Wiley CEMENTER: David W. L.

FINAL DISP. PRESS: _____ PSI BUMP PLUG TO _____ PSI BLEEDBACK _____ BBLs.

Taylor Printing, Inc., Pratt, KS

THANK YOU