

SIDE TWO

Operator Name OXY USA Inc. Lease Name Harbaugh A Well # 2
 Sec. 21 Twp. 33S Rge. 14 East County Barber 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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Attach Additional Sheets.) Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy.) List All E.Logs Run: Dual Spaced Neutron Acoustic Cement Bond	<input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample Formation (Top), Depth and Datum <table border="0" style="width:100%"> <tr> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td>Topeka</td> <td>3333</td> <td>-1659</td> </tr> <tr> <td>Base Deer Creek</td> <td>3512</td> <td>-1838</td> </tr> <tr> <td>Heebner</td> <td>3860</td> <td>-2186</td> </tr> <tr> <td>Toronto</td> <td>3871</td> <td>-2197</td> </tr> <tr> <td>Lansing</td> <td>4061</td> <td>-2387</td> </tr> <tr> <td>Swope</td> <td>4466</td> <td>-2792</td> </tr> <tr> <td>Hertha</td> <td>4490</td> <td>-2816</td> </tr> <tr> <td>BKC</td> <td>4518</td> <td>-2844</td> </tr> <tr> <td>Mississippian</td> <td>4639</td> <td>-2950</td> </tr> <tr> <td>Kinderhook</td> <td>4864</td> <td>-3190</td> </tr> <tr> <td>Chattanooga</td> <td>4880</td> <td>-3206</td> </tr> <tr> <td>Viola</td> <td>4930</td> <td>-3256</td> </tr> <tr> <td>Simpson Shale</td> <td>5068</td> <td>-3394</td> </tr> </table>	Name	Top	Datum	Topeka	3333	-1659	Base Deer Creek	3512	-1838	Heebner	3860	-2186	Toronto	3871	-2197	Lansing	4061	-2387	Swope	4466	-2792	Hertha	4490	-2816	BKC	4518	-2844	Mississippian	4639	-2950	Kinderhook	4864	-3190	Chattanooga	4880	-3206	Viola	4930	-3256	Simpson Shale	5068	-3394
Name	Top	Datum																																									
Topeka	3333	-1659																																									
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Viola	4930	-3256																																									
Simpson Shale	5068	-3394																																									

CASING RECORD <input checked="" 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	1100	*See 1 Below		
Production	7 7/8"	5 1/2"	14	5150	*See 2 Below		

ADDITIONAL CEMENTING/SQUEEZE RECORD				
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				*1 425sks 65/35 Poz w/6% gel, 3% cc, 1/4 PPS Floceal & 100sks Class A w/3% cc, 1/4PPS Flocele. *2 75sks 65/35 Poz w/6% gel & 1/4 PPS Flocele, 200sks 50/50 Class H poz w/2% gel, 12% salt, 5% Halad-322, 1% Calcium Chloride & 1/4 PPS Flocele.

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	4953-57, 4986-92 CIBP @ 4910	Acidized w/1000 gal 15%NE-FE, & 2000 gal 7.5%.	4953-92
2	4642-4680	Acidized w/2000 gal 7.5% FE, frac w/75,300 gal foam	4642-80

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		2 3/8	4621			
Date of First, Resumed Production, SWD or Inj. 2/25/95			Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas 514	Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas: **METHOD OF COMPLETION** Production Interval 4642-4680

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled
 (If vented, submit ACO-18.) Other (Specify) _____



HALLIBURTON ENERGY SERVICES

HAL-1906-N

CHARGE TO: **OXY VEA INC.**
 ADDRESS: **P.O. Box 26100**
 CITY, STATE, ZIP CODE: **OKLAHOMA CITY, OK 73126-0100**

CUSTOMER COPY

No. **806528 - 8**

PAGE **1** OF **2**

SERVICE LOCATIONS 1. HAYS, KS 2. PRATT, KS 3.	WELL/PROJECT NO. 2	LEASE HARROUGH "A"	COUNTY/PARISH BARBER	STATE KS	CITY/OFFSHORE LOCATION	DATE 1-26-95	OWNER WAMI
TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR BRANT DRILLING	RIG NAME/NO.	SHIPPED VIA 5113	DELIVERED TO LOCATION	ORDER NO.	
WELL TYPE 01	WELL CATEGORY 01	JOB PURPOSE 035	WELL PERMIT NO. 15007214670000	WELL LOCATION 21 - 315 - 130			
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
000-117	ORIGINAL	1		Y	SMILEAGE					2.15	275.00
001-016		1			PUMP SERVICE				6.182	1895.00	1895.00
030-018		1			5" W PLUG	1	EA	5/8"		65.00	65.00
018-315		1			MUDFOUN					2.25	325.00
500-959		1			DESICO	1	SK				49.38
12A		815-205	1	32	GUIDE SHOE	1	EA	5/8"		121.00	121.00
21A		815-19291	1	32	LOSET FLOAT VALVE	1	EA	5/8"		110.00	110.00
27		815-19313	1	32	AJIO FILL-UP UNIT	1	EA	1.25	TD	55.00	55.00
40		805-60022	1	32	CENTRALIZER 5-4 (2)	12	EA	5/8"		60.00	720.00
250		890-10202	1	32	WELD - A	1	EA			14.50	14.50
019-241		1	32	INSTALLED HEAD	1	DOB			125.00	125.00	

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.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X *[Signature]*
 DATE SIGNED: **1-26-95** TIME SIGNED: **0730** A.M. P.M.

I do do not require IPC (Instrument Protection). Not offered

SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		SURVEY		AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL 3814.88
TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?					FROM CONTINUATION PAGE(S) 4388.44
TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
TUBING SIZE	TUBING PRESSURE	WELL DEPTH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
TREE CONNECTION	TYPE VALVE	ARE YOU SATISFIED WITH OUR SERVICE?		<input type="checkbox"/> YES	<input type="checkbox"/> NO		SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE
		<input checked="" type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					8203.32

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) DONALD HERMAN	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <i>[Signature]</i>	HALLIBURTON OPERATOR/ENGINEER WAYNE S. WOODSON	EMP # 89177	HALLIBURTON APPROVAL <i>[Signature]</i>
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15-007-22467-000



HALLIBURTON ENERGY SERVICES

TICKET CONTINUATION

CUSTOMER COPY

TICKET No. 806528

CUSTOMER OXY USA INC	WELL HARBAUGH A-2	DATE 01-26-95	PAGE 2	OF 2
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FORM 1911 R-10

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	WELL		DATE		PAGE	
		LOC	ACCT	DF		QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
504-316		7			HALLIBURTON LIGHT CEMENT	115	sk			7.37	847 55
507-210	890.50071	7			FLOCELE BLENDED 1/4#	29	lb			1.65	47 85
LEAD CEMENT LOADED ON TRUCK #3711/7488-FRONT											
504-131		7			50/50 POZMIX PREMIUM #2X GEL	200	sk			7.02	1404 00
509-968	516.00158	7			SALT BLENDED 12X	1450	lb			15	217 50
509-406	890.50812	7			CALCIUM CHLORIDE BLENDED 1X	2	sk			36.75	73 50
507-210	890.50071	7			FLOCELE BLENDED 1/4#	50	lb			1.65	82 50
507-775	516.00144	7			HALAD-322 BLENDED .5X	81	lb			7.00	567 00
TAIL CEMENT LOADED ON TRUCK #3711/7488-BACK											
ORIGINAL											
500-207		7			SERVICE CHARGE	CUBIC FEET 346				1.35	467 10
500-306		7			MILEAGE CHARGE	TOTAL WEIGHT 28,692	LOADED MILES 50	TON MILES 717.3		.95	681 44

No. B 246083

CONTINUATION TOTAL

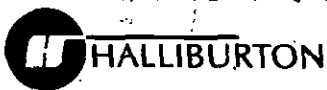
4398.44



CUSTOMER OXY USA EX.	WELL NO. 2	LEASE HARBAUGH A	JOB TYPE 5 1/2" LOGSHELLS	TICKET NO. 806528
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				A	C	TUBING	CASING	
	2130							CALLED OUT 1-25
	0200							ON LOCARD
								DISCUSS JOB PROCEDURE
	0710							DROP BALL - BREAK CIRCULATION
1	0815		4.8					PLUG RATHOLE AFTER PUMPING PREFLUSH
	0850		3.5					PLUG MOUSEHOLE AFTER PUMPING PREFLUSH
	0835	6	12		✓		200	PUMP DISCO PREFLUSH
	0839	6	12		✓		200	PUMP MUDFLUSH
	0843	6	3		✓		200	PUMP WATER SAKER
	0959	6 1/2	0		✓		225	MIX CEMENT
	1012		77.9					FINISH MIXING
	1015		8					FLUSH OUT PUMP & LINES
	1016							RELEASE PLUG
	1017	6	0		✓		600	DISPLACE PLUG
		2	90					SLOW RATE DOWN
	0942	2	124.8				1500	PLUG DOWN
	0947						1500	RELEASE PSE - FLOAT HELD
								WASH UP - RAKE UP
	1130							JOB COMPLETE THANK YOU WAYNE WISSON, DAVE ASH, KYIE STAPEL

ORIGINAL



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

MOD CONTINENT
HAYS, KS

BILLED ON TICKET NO. 80628

WELL DATA
FIELD _____ SEC 21 TWP 23S RING 14W COUNTY BARBER STATE KS

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
INITIAL PROD: OIL _____ BPD. WATER _____ BPL. GAS _____ MCFD
PRESENT PROD: OIL _____ BPD. WATER _____ B-D. 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	N	14	5 1/2	KB	5158	
LINER						
TUBING						
OPEN HOLE			7 7/8	5158	5160	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>1-25</u>	DATE <u>1-26</u>	DATE <u>1-26</u>	DATE <u>1-26</u>
TIME <u>2:30</u>	TIME <u>0:00</u>	TIME <u>0:30</u>	TIME <u>1:30</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
INSERT FLOAT	1	HOWLO
AUTO FOLLOW UP	1	"
GUIDE SHOE	1	"
CENTRALIZERS	12	BAKER
BOTTOM PLUG		
TOP PLUG	1	HOWLO
HEAD	1	"
PACKER		
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
W. WILSON	B9377	HAYS, KS
D. ASH	E1609	"
K. STAPEL	B670	PRATT, KS

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API _____
DISPL. FLUID _____ DENSITY _____ LB/GAL. API _____
PROP. TYPE _____ SIZE _____ LB _____
PROP. TYPE _____ SIZE _____ LB _____
ACID TYPE _____ GAL _____ IN _____
ACID TYPE _____ GAL _____ IN _____
ACID TYPE _____ GAL _____ IN _____
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 _____ IN _____
PERFPAC BALLS TYPE _____ GAL-LB _____ IN _____
OTHER _____
OTHER _____

DEPARTMENT CEMENT
DESCRIPTION OF JOB 5 1/2" LOG STRONG
JOB DONE THRU: TUBING CASING NULLS TBG./ANN.
CUSTOMER REPRESENTATIVE Wayne E. With
HALLIBURTON OPERATOR Wayne E. With
COPIES REQUESTED 1

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU. FT./BK.	MIXED LBS./GAL.
1	115	STD-LIME		B	1/4 # FLOCEL P/SK	1.97	13.4
2	200	SD/SO PREM/PD2		B	2% GEL, 1/4 # FLOCEL, 1% CG, 12% SALT, 1.5% HALAD 322	1.29	14.4

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 _____
FEET 43.23 REASON EMPTY

SUMMARY

VOLUMES
PRES. DESCO / MUDFL. TYPE 12 - 12
LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____
TREATMENT: BBL-GAL _____ DISPL. 124.9
CEMENT SLURRY 40.3 - 45.9 = 86.2
TOTAL VOLUME: BBL-GAL _____
REMARKS
TOTAL D.P. - 5158
CENTRALIZERS - 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23

CUSTOMER NO. 1014
LEASE 1188458
WELL NO. 2
JOB TYPE 512 LOG STRONG
DATE 1-26-95



HALLIBURTON ENERGY SERVICES

HAL-1906-N

CHARGE TO: 1084 USA 100
 ADDRESS: Box 2100
 CITY, STATE, ZIP CODE: OKLAHOMA CITY, OK 73106-1000

CUSTOMER COPY

TICKET

No.

741592 - 5

PAGE 1 OF 2

SERVICE LOCATIONS 1. <u>KAA 10</u>	WELL/PROJECT NO. 2	LEASE <u>HARTAUGH A</u>	COUNTY/PARISH <u>TARRANT</u>	STATE <u>TX</u>	CITY/OFFSHORE LOCATION	DATE <u>1-18-95</u>	OWNER <u>SPRMC</u>
2.	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <u>DAVID WELLS</u>	RIG NAME/NO.	SHIPPED VIA <u>TRUCK SITE</u>	DELIVERED TO	ORDER NO.
3.	WELL TYPE <u>12</u>	WELL CATEGORY <u>01</u>	JOB PURPOSE <u>010</u>	WELL PERMIT NO.	WELL LOCATION <u>21-535-1401</u>		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS <u>2 EX. INVS. 146 Form 245 40.5K, Flt Exp 328</u>					

PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
100-117		1		10.5	MILEAGE					2.25	22.50
101-016		1		4.5	Drilling						11.2500
230-203		1		32	5" pipe						15.00
16A	830-2171	1		32	5" pipe						141.00
24A	815-17502	1		32	5" pipe						171.00
27	815-17413	1		32	5" pipe						55.00
40	596-00029	1		32	5" pipe						80.00
01-018		1		4.5	ADD INVS						47.2500

ORIGINAL

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MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOOD.

DATE SIGNED: 1-18-95 TIME SIGNED: 09:45 A.M. P.M.

do, do not require IPC (Instrument Protection). Not offered

SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL <u>2452.00</u>
TYPE LOCK	DEPTH		OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?				FROM CONTINUATION PAGE(S) <u>13/17</u>
TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
TUBING SIZE	TUBING PRESSURE	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
	WELL DEPTH	ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO			
TREE CONNECTION	TYPE VALVE	<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE <u>9016.70</u>

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) <u>David Williams</u>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <u>[Signature]</u>	HALLIBURTON OPERATOR/ENGINEER <u>[Signature]</u>	EMP #	HALLIBURTON APPROVAL <u>[Signature]</u>
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TICKET CONTINUATION CUSTOMER COPY

TICKET No. 246084

HALLIBURTON ENERGY SERVICES

FORM 1911 R-10

CUSTOMER OXY USA INC	WELL HARBAUGH A 2	DATE 01-18-94	PAGE 2	OF 2
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PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M	QTY.	U/M	UNIT PRICE	AMOUNT		
		LOC	ACCT	DF										
504-316		1		4	HALLIBURTON LIGHT CEMENT	425	sk				7.37	3132	25	
509-406	890.50812	1			CALCIUM CHLORIDE BLENDED 3%	11	sk				36.75	404	25	
507-210	890.50071	1			FLOCELE BLENDED 1/4#	106	lb				1.65	174	90	
LEAD CEMENT LOADED ON TRUCK #3046/5621-SPLIT														
504-308	516.00261	1			STANDARD CEMENT	100	sk				7.82	782	00	
509-406	890.50812	1			CALCIUM CHLORIDE BLENDED 3%	3	sk				36.75	110	25	
507-210	890.50071	1			FLOCELE BLENDED 1/4#	25	lb				1.65	41	25	
TAIL CEMENT LOADED ON TRUCK #4413-FRONT														
ORIGINAL														
SERVICE CHARGE					CUBIC FEET		562				1.35		758 70	
500-207		1			MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	TON MILES		1.95		1161 16		
500-306		1			48,891	50	1222.275							

No. B 246084

CONTINUATION TOTAL

27

WELL DATA

FIELD 21 SEC. 33 S. TWP. 140 RING. 140 COUNTY BAKEL STATE TX

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
FORMATION THICKNESS	FROM TO						
INITIAL PROD. OIL	BPD. WATER	BPD. GAS					
PRESENT PROD. OIL	BPD. WATER	BPD. GAS					
COMPLETION DATE	MUD TYPE	MUD WT.					
PACKER TYPE	SET AT						
BOTTOM HOLE TEMP.	PRESSURE						
MISC. DATA	TOTAL DEPTH						

JOB DATA

CALLER OUT DATE <u>1-18</u> TIME <u>0530</u>	ON LOCATION DATE <u>1-18</u> TIME <u>0910</u>	JOB STARTED DATE <u>1-18</u> TIME <u>1228</u>	JOB COMPLETED DATE <u>1-18</u> TIME <u>1800</u>
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TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>INSERT</u>	<u>1</u>	<u>H.E.S.</u>
FLOAT SHOE <u>Auto TRL</u>	<u>1</u>	<u>H.E.S.</u>
GUIDE SHOE <u>TEXAS MASON</u>	<u>1</u>	<u>H.E.S.</u>
CENTRALIZERS	<u>1</u>	<u>H.E.S.</u>
BOTTOM PLUG	<u>1</u>	<u>H.E.S.</u>
TOP PLUG	<u>1</u>	<u>H.E.S.</u>
HEAD <u>P.C.</u>	<u>1</u>	<u>H.E.S.</u>
PACKER		
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>M. Blynd</u>	<u>3423</u>	<u>FRANK TX</u>
<u>K. GARDNER</u>	<u>51936</u>	<u>FRANK TX</u>
<u>J. MULLOY</u>	<u>2046-5621</u>	<u>FRANK TX</u>
<u>P. Johnson</u>	<u>4413</u>	<u>FRANK TX</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.

ERIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN.

BREAKER TYPE _____ GAL.-LB. _____ IN.

BLOCKING AGENT TYPE _____ GAL.-LB.

PERFAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

ORIGINAL

DEPARTMENT CEMENT

DESCRIPTION OF JOB UNIT 8 3/4" 2 1/2" SUELF C&G

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

CUSTOMER REPRESENTATIVE X P. Johnson

HALLIBURTON OPERATOR M. Blynd COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>425</u>	<u>LITE</u>			<u>36 L.C. 1/2" FROCKLE</u>	<u>1.69</u>	<u>13.1</u>
	<u>100</u>	<u>STD.</u>			<u>36 L.C. 1/2" FROCKLE</u>	<u>1.18</u>	<u>15.6</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL.-GAL. _____ TYPE _____

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

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL: BBL. 4748

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL. 148.94

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. _____

ORDERED _____ AVAILABLE _____ USED _____ REMARKS _____

AVERAGE RATES IN BPM. _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET 40.61 REASON INSERT

CUSTOMER: USA 11C LEASE: HALLIBURTON A WELL NO: 2 JOB TYPE: UNIT DATE: 1-18-95



JOB LOG HAL-2013-C

CUSTOMER: **OKY USA INC** WELL NO: **2** LEASE: **HALLIBURTON A** JOB TYPE: **CEMENT** TICKET NO: **741592**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (CAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				A	B	TUBING	CASING	
	0530							CALLED OUT
	0910							ON LOCATION (RIG STILL DRG) GAVE BEST M.S.D.S
								SET UP EQUIP.
								RIG COMING OUT w/ DLEG PIPE RUNNING TIGHT WILL MAKE SHORT TRIP
	1410							START CSG GUIDE SLEE INSERT & FILL UP 1 CONC ABOVE 20' UP FROM BOT. OF CSG. (STRAP WELDED CSG.)
	1550							BREAK CONC. 20 MIN.
	1618							MIX CNT. 425 SCS ^{HOWDO} LITG 100 SCS STD.
		5 1/2	0				600	PUMPING
	1645		148.94					FINISHED MIX SHUT IN
	1648	7	0				750	RELEASE PLUG START DISH
							400	SLOW RATE
	1700		67.48				600	PLUG DOWN ORIGINAL
								RELEASE & NEED
								WASH UP TRK RACK UP
	1800							JOB COMP.