

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

API NO. 15-007-22470-00-00 ORIGINAL

County Barber

     - NW -      - NW -      - NE Sec. 6 Twp. 35S Rge. 13 X W

330 Feet from X/N (circle one) Line of Section

2000 Feet from E/X (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
XX, SE, XX or XX (circle one)

Lease Name Morrow A Well # 2

Field Name Aetna

Producing Formation Mississippian

Elevation: Ground 1641 KB 1654

Total Depth 5520 PBDT 5475

Amount of Surface Pipe Set and Cemented at 470 Feet

Multiple Stage Cementing Collar Used? Yes x No

If yes, show depth set      Feet

If Alternate II completion, cement circulated from     

feet depth to      w/      sx cmt.

Drilling Fluid Management Plan Alt I 5-13-96  
(Data must be collected from the Reserve Pit)     

Chloride content 1800 ppm Fluid volume 1200 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 # 5447

Name: OXY USA Inc.

Address P. O. Box 26100

City/State/Zip Oklahoma City, Ok 73126-0100

Purchaser: KGS Pipeline

Operator Contact Person: Jerry Ledlow

Phone (405) 749-2309

Contractor: Name: Brandt Drilling Co.

License: #3840

Wellsite Geologist: Harold Trapp

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  SLOW  Temp. Abd

Gas  ENHR  SIGW

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

If Workover:

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.     

2/2/95 2/13/95 5/8/95  
Spud Date Date Reached TD Completion Date

RECEIVED

6-1-95  
JUN 0 1995

CONSERVATION DIVISION  
WICHITA, KANSAS

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.

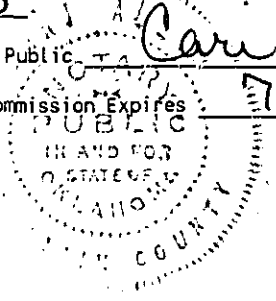
All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature [Signature]  
Title Staff Analyst Date 5/3/95

Subscribed and sworn to before me this 31st day of May, 1995.

Notary Public [Signature]

Date Commission Expires 7-14-95



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)

**ORIGINAL**

**SIDE TWO**

Operator Name OXY USA Inc. Lease Name Morrow A Well # 2

Sec. 6 Twp. 35S Rge. 13  East  West  
 County Barber

**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:  
 Z-Densiglog Compensated Neutron  
 Dual Induction Focused Log  
 Minilog

Log Formation (Top), Depth and Datums  Sample

Name	Top	Datum
Howard	3402	-1748
Topeka	3486	-1832
Queen Hill	3810	-2156
Heebner	4032	-2378
Lansing	4230	-2576
Hertha	4714	-3060
Miss	4855	-3201
Kinderhook	5186	-3532
Chattanooga	5222	-3568
Viola	5266	-3612
Simpson Shale	5409	-3755
Simpson Sand	5452	-3798

**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 1/4"	8 5/8"	24	470	See #1 Below		
Production	7 7/8"	5 1/2"	14	5521	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, 150sks 65/35 Class A Pozmix w/6%gel, 3% cc, 1/4 PPS Flocele, & 100sks Class A w/3% cc & 1/4 PPS Flocele.
				*2 Plug mouse hole w/10sks & rat hole w/15sks, 85sks 65/35 Class H Poz w/2%gel, 12% salt, 1/2% Halad-322, 1% cc, 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
1	4848-54, 4862-4920.	Acidized w/2000 gal 7.5% FE	
		Frac w/ 75,470 gal 70 quality foam	
		128,000# 12/20 Brady sand.	

**TUBING RECORD** Size 2 3/8" Set At 4832 Packer At \_\_\_\_\_ Liner Run  Yes  No

Date of First, Resumed Production, SWD or Inj. 5/8/95 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		360			

Disposition of Gas: **METHOD OF COMPLETION** Production Interval: 4848-4920

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 USA INC  
 ADDRESS:  
 Box 26100  
 CITY, STATE, ZIP CODE:  
 OKLAHOMA CITY 73126-100

DUNCAN COPY

TICKET

No. 741657

PAGE 1 OF 2

SERVICE LOCATIONS 1. PRATT 25555	WELL/PROJECT NO. #A-2	LEASE Morrow	COUNTY/PARISH Barber	STATE KS	CITY/OFFSHORE LOCATION	DATE 2-13-95	OWNER Sgmc
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR Brant Drilling	RIG NAME/NO. 1	SHIPPED VIA LT	DELIVERED TO Location	ORDER NO.
3.	WELL TYPE 695	WELL CATEGORY 02 lev	JOB PURPOSE 01 L String	WELL PERMIT NO. 035	WELL LOCATION 15007224700000	WELL LOCATION Land	
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS 40.5%						

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
000-117		1			MILEAGE	100m				275	27500
001-016		1			Pump Charge	6 hrs					200000
030-016		1			SW Plug	1 eq	5 1/2 in				6000
019-241		1			Rotating Head	1 Job	5 1/2 in				18500
12A	825.205	1			Guide Shoe	1 eq	5 1/2 in				12100
24A	815.19251	1			Insert Float Valve	1 eq	5 1/2 in				11000
27	815.19313	1			Auto Fillup Tube	1 eq	5 1/2 in				5500
40	806.60022	1			Centralizers S-4	11 eq	5 1/2 in			6000	66000
350	890.10802	1			Halliburton Weld-A	2 eq				1450	29000
018-315		1			Mud Flush	500 gal				65	32500
001-018		1			ADDITIONAL HRS	2 hrs				23500	47000

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.

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

*[Signature]*  
 DATE SIGNED: 2-12-95  
 TIME SIGNED: 21:00 P.M.

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

SUB SURFACE SAFETY VALVE WAS  PULLED & RETURN  PULLED

TYPE LOCK

BEAN SIZE

TYPE OF EQUALIZING SUB.

TUBING SIZE

TUBING PRESSURE

WELL DEPTH

TREE CONNECTION

TYPE VALVE

RECEIVED  
 CORPORATION  
 WICHITA, KS  
 FEBRUARY 1 1995

**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	427550
FROM CONTINUATION PAGE(S)	442082
SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE	869637

**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): *[Signature]*  
 CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE): *[Signature]*  
 HALLIBURTON OPERATOR/ENGINEER: *[Signature]* EMP #: 85826  
 HALLIBURTON APPROVAL: *[Signature]*



**WELL DATA**

FIELD \_\_\_\_\_ SEC. **6** TWP. **35S** RING. **13W** COUNTY **Barber** STATE **KS**

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_  
 FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_  
 INITIAL PROD. OIL \_\_\_\_\_ B.P.D. WATER \_\_\_\_\_ B.P.D. GAS \_\_\_\_\_ MCFD  
 PRESENT PROD. OIL \_\_\_\_\_ B.P.D. WATER \_\_\_\_\_ B.P.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	5521	
LINER						
TUBING						
OPEN HOLE			7 7/8"	5521	5530'	RSD SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

**JOB DATA**

CALLLED OUT DATE	ON LOCATION DATE	JOB STARTED DATE	JOB COMPLETED DATE
2-12 DATE TIME 15:00	2-12-95 DATE TIME 20:00	2-13-95 DATE TIME 00:45	2-13-95 DATE TIME 08:30

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <b>1 INSET 5 1/2</b>	1	HCS
FLOAT SHOE		
GUIDE SHOE <b>REG 5 1/2</b>	1	"
CENTRALIZERS <b>S-4 5 1/2</b>	11	"
BOTTOM PLUG		
TOP PLUG <b>SW PL 5 1/2</b>	1	"
HEAD <b>Rotating 5 1/2</b>	1	"
PACKER		
OTHER		

**PERSONNEL AND SERVICE UNITS**

NAME	UNIT NO. & TYPE	LOCATION
<b>B Byrly 85826</b>	<b>39601 P-4</b>	<b>PRATT KS</b>
<b>L Barber 62723</b>	<b>52504 RCM</b>	"
<b>S Morrow 55273</b>	<b>3711-7488 Bulk</b>	"

**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 \_\_\_\_\_

DEPARTMENT **Cement**  
 DESCRIPTION OF JOB **5 1/2" Long string**  
 JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN.   
 CUSTOMER REPRESENTATIVE **X [Signature]**  
 HALLIBURTON OPERATOR **[Signature]** COPIES REQUESTED \_\_\_\_\_

**CEMENT DATA**

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<del>110</del>						
	110	HLC 4	STD	B	1/4# Flo-Gel	18.4	12.55
	210	54150	Premier	B	1/4# Flo-Gel, 12% Salt, 1% CC, 2% gel, 5% Hald-332	1.26	14.3

**PRESSURES IN PSI**

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_  
 BREAKDOWN \_\_\_\_\_ MAXIMUM **1500**  
 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 **46 25** REASON **Shoe off**

**SUMMARY**

PRELUSH: BBL-GAL. **12 + 12** TYPE **Disco - Mud Flush**  
 LOAD & BKDN: BBL-GAL. \_\_\_\_\_ PAD: BBL-GAL. **3**  
 TREATMENT: BBL-GAL. \_\_\_\_\_ DISPL: BBL-GAL. **133.7**  
 CEMENT SLURRY: BBL-GAL. **36.0 + 47.1 = 83.1**  
 TOTAL VOLUME: BBL-GAL. \_\_\_\_\_

**REMARKS**

**CENT 1-2-9-10-11-12-13-14-15-16-17**  
**120 ft Total Pipe 5524'**

CUSTOMER **OXF USA**  
 LEASE **Morrow**  
 WELL NO. **A-2**  
 JOB TYPE **Long string**  
 DATE **2-13-95**



**JOB LOG** HAL-2013-C

CUSTOMER: **OXY USA** WELL NO: **A-2** LEASE: **Marro** JOB TYPE: \_\_\_\_\_ TICKET NO: \_\_\_\_\_

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				A	C	TUBING	CASING	
	15:00							On
	20:00							Give n
	00:30							Run Floo
	00:45							<b>ORIGINAL</b>
	02:45							Casing on Bottom
	03:00							Break Circulation
								Hook up To Pump
	06:09	4	12				200	Pump Pre Flush Desc
	06:13	5	12				300	Pump Mud Flush
	06:17	5	3				300	Pump SPACER Fresh wa
	06:19							Start Mixing HLC Lead cnt
	06:23	3	3.4					Plug Rathole 15 sks HLC
	06:28	3	2.2					Plug Mouschale 10 sks HLC
	06:33	6	0				340	Start Rest of Lead cnt Downhole
	06:37	5.5	27.8				250	Start Mixing Tail cnt 14.3 #
	06:48	5.0	74.9				200	Finish Mixing
	06:49	-	-					Wash out Pump Lines
	06:50	-	-					Release Plug
	06:51	8	0				150	Start Displacement
	07:02	8	60				200	Cement on Bottom
	07:04	2	90				100	Reduce Rate last circ
	07:06	4					150	Circ Back increase rate
	07:10	5					400	Increase Rate
	07:20	2	133.7				700	Land Plug
	07:23						1500	Release PSI Plug
	07:24							Float Hold Release 1
	07:25							Wash up
	08:30							Job Complete

Thanks

blu, Larry, Steve

Handwritten scribbles or marks.

Handwritten scribbles or marks.



HAL-1906-N

CUSTOMER COPY

TICKET

No.

741597 - X

PAGE 1 OF 2

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY/OFFSHORE LOCATION	DATE	OWNER
1. <u>PLANT</u>	<u>A-2</u>	<u>MADRID</u>	<u>BARBER</u>	<u>KS</u>		<u>7-95</u>	<u>SAME</u>
2.							
TICKET TYPE	NITROGEN JOB?	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
<input type="checkbox"/> SERVICE	<input type="checkbox"/> YES	<u>CRANIT</u>		<u>7</u>	<u>WELL SITE</u>		
<input type="checkbox"/> SALES	<input type="checkbox"/> NO						
WELL TYPE	WELL CATEGORY	SOB PURPOSE	WELL PERMIT NO.	WELL LOCATION			
<u>01</u>	<u>01</u>	<u>010</u>					
REFERRAL LOCATION	INVOICE INSTRUCTIONS						
	<u>40.5%</u>						

PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING LOC	DESCRIPTION	QTY	U/M	QTY	U/M	UNIT PRICE	AMOUNT
800-17			MILEAGE	100	MI			2.25	225.00
01-014			CHARGE	471	EA				678.00
020-23				1	EA				100.00
11A	830-217			1	EA				100.00
24A	815-19502			1	EA				100.00
22	815-19415			1	EA				100.00
40	800-60059			1	EA				100.00

**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

DATE SIGNED: 7/29/95 TIME SIGNED: 10:00 AM

do  do not require IPC (Instrument Protection)  Not offered

SUB SURFACE SAFETY VALVE WAS:	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	PAGE TOTAL
<input type="checkbox"/> LOCKED <input type="checkbox"/> RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN			167
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?	FROM CONTINUATION PAGE(S)
			7-17
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?	
FREE CONNECTION	TYPE VALVE	ARE YOU SATISFIED WITH OUR SERVICE?	SUB-TOTAL
		<input type="checkbox"/> YES <input type="checkbox"/> NO	APPL. CABLE TAXES WILL BE ADDED ON INVOICE
		<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND	4637.17

**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): DOUG HERMAN

CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE): [Signature]

HALLIBURTON OPERATOR/ENGINEER: [Signature] EMP # 00248

HALLIBURTON APPROVAL: [Signature]





HALLIBURTON

HALLIBURTON ENERGY SERVICES

TICKET CONTINUATION

CUSTOMER COPY

TICKET No. 741397

FORM 1911 R-10

CUSTOMER <b>OXY USA INC</b>	WELL <b>MORROW A-2</b>	DATE <b>02-03-95</b>	PAGE <b>2</b>	OF <b>2</b>
--------------------------------	---------------------------	-------------------------	------------------	----------------

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
504-316		1			HALLIBURTON LIGHT CEMENT	150	sk			7 37	1103 50
509-406	890.50812	1			CALCIUM CHLORIDE BLENDED 3%	4	sk			36 75	147 00
507-210	890.50071	1			FLOCELE BLENDED 1/4#	38	lb			1 65	62 70
LEAD CEMENT LOADED ON TRUCK #3046/7488-FRONT											
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 #3046/7488-BACK											
ORIGINAL											
500-207		1			SERVICE CHARGE	CUBIC FEET		269		1 35	363 15
500-306		1			MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	TON MILES		95	558 32
					23,508	50	587.70				

No. B 281175

CONTINUATION TOTAL 119 17



# JOB SUMMARY

HALLIBURTON DIVISION  
HALLIBURTON LOCATION

WELL CONTINUED  
FRAT 15

BILLED ON TICKET NO. 741597

## WELL DATA

FIELD \_\_\_\_\_ SEC \_\_\_\_\_ TWP \_\_\_\_\_ RNG \_\_\_\_\_ COUNTY DARREN 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	<input checked="" type="checkbox"/>	24"	8.78	0	474'	
LINER						
TUBING						
OPEN HOLE			12 1/4"	KB	471'	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

## JOB DATA

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR 1 1/2" INSERT FLOAT	1	H.E.S.
FLOAT SHOE AUTO FILL UP	1	H.E.S.
GUIDE SHOE		
CENTRALIZERS	1	H.E.S.
BOTTOM PLUG		
TOP PLUG	1	H.E.S.
HEAD P.C.	1	H.E.S.
PACKER		
OTHER		

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 2-3	DATE 2-3	DATE 2-3	DATE 2-4
TIME 19:40	TIME 19:20	TIME 11:00	TIME 24:20

## PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
M. BOUYARD 50848	PM 38423	FRAT 15
K. GOODNEY 28500	PM 51934	FRAT 15
C. BAKER 29447	BULK 3046-7488	FRAT 15

### 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 \_\_\_\_\_

DEPARTMENT DMT  
 DESCRIPTION OF JOB DMT 24" 8.78" SUFF.  
 JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN.   
 CUSTOMER REPRESENTATIVE [Signature]  
 HALLIBURTON OPERATOR M.R. Blyard COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	ADDS	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	150	HLC STD			3% C.I. 1/4" FLOCCS	1.69	13.1
	100	STD			3% C.I. 1/4" FLOCCS	1.18	15.6

### 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 39 REASON 1 1/2" INSERT

## SUMMARY

## VOLUMES

PRESLUSH: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_  
 LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_  
 TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL: BBL. 27.67  
 CEMENT SLURRY: BBL. 45.15 + 21.02 = 66.17  
 TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_

## REMARKS

LOAD 435'

CUSTOMER: BLY USA INC  
 LEASE: MORGAN  
 WELL NO: A-2  
 JOB TYPE: CEMENT



HALLIBURTON

JOB LOG HAL-2013-C

DATE: 3-95 PAGE NO: 1

CUSTOMER: OXY USA INC WELL NO: A-2 LEASE: MORROW JOB TYPE: CEMENT TICKET NO: 741597

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	17:40							CALLED OUT
	19:20							ON LOCATION
								REG STILL DRUG
								BLEAK APC ORIGINAL
								MIX CNT
	11:03	6	0			400		400 RAMPING
			66.17					SHUT DOWN FINISHED MIX
			/					RELEASE REG
	11:17	4	0			250		START DESP
		7	2			650		RATE
			17			650		CNT RETURNS
		1				200		SLOW RATE
	11:35					400		REG DOWN
	11:38							RELEASED & ACD
								WASH UP
								RACK UP
	12:20							JOB COMP

FIELD OFFICE