

CONFIDENTIAL ORIGINAL

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

API NO. 007-22439-0000
County Barber
-CE/2 - NE - NW Sec. 27 Twp. 33S Rge. 14 X W

Operator: License # 5447

660 Feet from X(N) (circle one) Line of Section

Name: OXY USA Inc.

2310 Feet from X(W) (circle one) Line of Section

Address P. O. Box 26100

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

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

Lease Name Harbaugh H Well # 1

Purchaser: _____

Field Name Aetna

Operator Contact Persons: Jerry Ledlow

Producing Formation Mississippi

Phone (405) 749-2309

Elevation: Ground 1721 KB 1726

Contractor: Name: Allen Drilling Co.

Total Depth 4850 PBDT 4781

License: 5418

Amount of Surface Pipe Set and Cemented at 1060 Feet

Wellsite Geologist: Kenneth LeBlanc

Multiple Stage Cementing Collar Used? Yes X No

Designate Type of Completion
X New Well Re-Entry Workover

If yes, show depth set _____ Feet

 Oil SMD SLOW Temp. Abd.
 Gas ENHR X SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

If Workover:

Drilling Fluid Management Plan ALT 1 (9H) 12-9-94
(Data must be collected from the Reserve Pit)

Operator: _____

Chloride content 1200 ppm Fluid volume 750 bbls

Well Name: _____

Dewatering method used Evaporation

Comp. Date _____ Old Total Depth _____

Location of fluid disposal if hauled offsite: _____

 Deepening Re-perf. Conv. to Inj/SMD
 Plug Back PBDT
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SMD or Inj?) Docket No. _____

Operator RELEASED KCC

Lease Name _____ License No. _____

4/4/94 4/14/94 4-17-94
Spud Date Date Reached TD Completion Date

Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W

County Barber Docket No. 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 Staff Analyst Date 7/12/94

Subscribed and sworn to before me this 12th day of July, 1994.

Notary Public Jammy L Padilla

Date Commission Expires 8-21-96

K.C.C. OFFICE USE ONLY		
F	<input checked="" type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input checked="" type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SMD/Rep
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug
<input type="checkbox"/>		<input type="checkbox"/> NGPA
<input type="checkbox"/>		<input type="checkbox"/> Other (Specify)

RECEIVED
STATE CORPORATION COMMISSION

JUL 14 1994
7-14-94
CONSERVATION DIVISION
Wichita, Kansas

P1

SIDE TWO

Operator Name OXY USA Inc. Lease Name Harbaugh H Well # 1
 Sec. 27 Twp. 33S Rge. 14 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 (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No See Attached Sheet	<input type="checkbox"/> Log Formation (Top), Depth and Datum	<input checked="" type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	See Attached Sheet	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

List All E.Logs Run:
 Dual Induction Focused Log
 Z-Densilog Compensated Neutron
 Minilog
 CALIPER PLOT

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	1060	See #1 Below		
Production	7 7/8"	5 1/2"	14	4849	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, ID <input type="checkbox"/> Plug Off Zone				
		*1 Pumped 350ax 65/35 pozmix w/6% gel, 2% cc, 1/4pps Flocele followed by 250ax Class A w/2% cc, 1/4 pps Flocele.		
		*2 Pumped 185ax 65/35 Class A pozmix w/ 6% gel, 1/4pps Flocele, followed by 186ax 50/50 Class A Pozmix w/2% gel, 12% salt, .5% FL 10, 1% cc, 1/4pps 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
2	4658-4740	Acidized w/2000 gal 15% FE	
		Fraced w/82,860 gal gel 90,000	
		12/20 Brady Sand	

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2 3/8	4549	4549	
Date of First, Resumed Production, SMD or Inj. Testing	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 Mcf	Water Bbls.	Gas-Oil Ratio Gravity

Disposition of Gas: **METHOD OF COMPLETION** Production Interval 4658-4740
 Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled
 (If vented, submit ACO-18.) Other (Specify) _____

OXY USA Inc.
Harbaugh H #1
Sec 27-33S-14W
Barber County, Kansas

API#15-007-22439-0000

ORIGINAL

Drill Stem Tests Taken

DST#1
4624-4739
115' of Anchor. Test times were 30-60-60-120
1st opening strong blow, gas to surface in 25 mins.
2nd opening flow rate 47 mcf to 29 mcf in 10 mins
avg 28 mcf thru remainder of test.
IHP 2294, IFP 86-86, ISIP 516, FFP 86-86, FSIP 538,
FHP 2241, Recovered 140' gas cut mud.

KCC

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JUL 1 1994

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Formation (Top), Depth and Datum

Formation Tops	Sample Tops	Datum
Chase/Herington	2116	- 385
Council Grove	2496	- 765
Wabaunsels	3013	-1292
Stotler	3157	-1428
Tarkio	3185	-1454
Lecompton	3687	-1958
Kanwaka	3724	-1994
Elgin SST	3778	-2051
Oread LS	3879	-2149
Heebner	3915	-2185
Upper Douglas SST	3962	-2239
Brn LS/Lansing	4100	-2271
Stark	4468	-2740
Mississippian Unc.	4657	-2933
Lower Miss	4706	-2988

RELEASED

AUG 1 8 1995

FROM CONFIDENTIAL

RECEIVED
STATE CORPORATION COMMISSION

JUL 14 1994
7-14-94
CORPORATION DIVISION
Wichita, Kansas

CHARGE TO: Only USA Inc
 ADDRESS: 110 S. Main Box 800
 CITY, STATE, ZIP CODE: Wichita, KS 67201

 COPY
TICKET
 No. **614202 - 6**
 PAGE 1 OF 2

FORM 1906 R-13

1. SERVICE LOCATIONS <u>1. P-3417 Ks</u>	WELL/PROJECT NO. <u>H-1</u>	LEASE <u>Hickory</u>	COUNTY/PARISH <u>Barber</u>	DATE <u>AUG 1 8 1995</u>	CITY/OFFSHORE LOCATION	DATE <u>4-14-94</u>	OWNER <u>S.L. RE</u>
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE	NITROGEN JOB? <input type="checkbox"/> YES	CONTRACTOR <u>Allen Drilling</u>	RIG NAME/NO. <u>2</u>	SHIPPED	DELIVERED TO <u>Wichita</u>	ORDER NO.	
3. <input type="checkbox"/> SALES	<input checked="" type="checkbox"/> NO	WELL TYPE <u>02</u>	WELL CATEGORY <u>01</u>	JOB PURPOSE <u>035</u>	WELL PERMIT NO. <u>15-00722434</u>	WELL LOCATION <u>6-105</u>	
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS <u>18.43</u>						

 RELEASED
 AUG 1 8 1995
 FROM: CONFIDENTIAL

ORIGINAL

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT.	DF		1	UM	1	UM	
000-111					MILEAGE	40	1	2.75		110.00
001-016					PUMP CHARGE	4349	1	0.32		1635.00
018-317					SUPERLUB	12	1	100.00		1200.00
26	847 6318				INSERT LOCK PLUG 5/16"	1	1	350.00		350.00
27	815 19313				FILL W/ ASSEMBLY	1	1	55.00		55.00
40	806 60022				CENTRIZONE	6	1	44.00		264.00
543	801 0374				LATCH DOWN AUG	1	1	205.00		205.00
544	801 0374 3				LATCH DOWN BRACKET	1	1	114.00		114.00
350	840 10802				HONG WEL	1	1	19.50		19.50
019241					ROTATING HEAD	1	1	185.00		185.00

 CONFIDENTIAL
 JUL 11 1995
 CONFIDENTIAL

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.

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE: [Signature]

DATE SIGNED: 4-14-94 TIME SIGNED: 10:40 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 <input type="checkbox"/> AGREE <input type="checkbox"/> UN-DECIDED <input type="checkbox"/> DIS-AGREE	PAGE TOTAL
TYPE LOCK DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	FROM CONTINUATION PAGE(S) <u>43-16-24</u>
BEAN SIZE SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?	
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 <u>8508.74</u>
	<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND	

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): Don Herman CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE): [Signature] HALLIBURTON OPERATOR/ENGINEER EMP # 11690 HALLIBURTON APPROVAL: [Signature]

WELL DATA

FIELD: _____ SEC: **27** TWP: **33S** RING: **19W** COUNTY: **BARBER** STATE: **KS**

FORMATION NAME	TYPE	NEW	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
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					SHOTS/FT.
PACKER TYPE	SEY AT						
BOTTOM HOLE TEMP.	PRESSURE						
MISC DATA: 4860' total casing	TOTAL DEPTH: 13148.50'						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
FLOAT COLLAR		
FLOAT SHOE	1	Hewco
GUIDE SHOE		
CENTRALIZERS	6	"
BOTTOM PLUG		
TOP PLUG: Linkdown Plug & Baffle	1	"
HEAD: PC	1	"
PACKER		
OTHER: Rotating Head	1	

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE: 4-14	DATE: 4-14	DATE: 4-14	DATE: 4-14
TIME: 0200	TIME: 0540	TIME: 0830	TIME: 1300

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
D. Bigler	C1690	Actup 40033
G. Biedy	8526	APT-754
T. SEA	C-1622	4142-7428

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
FRIC. RED. AGENT TYPE	GAL.-LB.	IN
BREAKER TYPE	GAL.-LB.	IN
BLOCKING AGENT TYPE	GAL.-LB.	IN
PERFPAC BALLS TYPE	QTY.	IN

KCC

JUL 1 ORIGINAL

CONFIDENTIAL

DEPARTMENT: **CEMENT**

DESCRIPTION OF JOB: **CEMENT 5 1/2" Linkdown**

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE: **[Signature]**

HALLIBURTON OPERATOR: **Doug Bigler**

COPIES REQUESTED: _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	190	HLC (52)	Hewco	B	6% Bond, 6% 1/4" Floccle	1.97	12.4
	185	50/50 Pre Rem	"	B	2% Cel, 1.2% SMC, 5% Hallow 322, 1% Cel, 1/4" Floccle	1.29	14.4

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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: **38** REASON: **Linkdown Baffle**

SUMMARY

PRESLUSH: BBL-GAL. _____

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

TREATMENT: BBL-GAL. _____ DISPL: BBL-GAL. **117.8**

CEMENT SLURRY: BBL-GAL. **1284.6 + 0.425 = 109.1 TOTAL**

TOTAL VOLUME: BBL-GAL. _____

REMARKS

SEE JOB LOG

THANKS DUG

CUSTOMER: **OKY USA**
 LEASE: **HARBAUGH**
 WELL NO.: **11**
 JOB TYPE: **5 1/2" Linkdown**
 DATE: **4-14-02**

CUSTOMER: OXY USA Inc. WELL NO: H-1 LEASE: Halliburton JOB TYPE: 5th Intensive TICKET NO: 614202

DATE (BPM) : RATE (GPM) : VOLUME (GAL) : PRESSURE (PSI) : TEMPERATURE (°F) : MWD (IN) : FORWARD MATERIALS

0200							Called out Gladys @ 0200
0540							on loc set up - HAVE MEETING w/ Customer & Safety meeting
0650							START TO HOLE w/ CASING
0820							CASING ON HOLE - DROP BALL
							Hook to Big mud Pump
0840							BREAK Circulation
							Finish Circulation & Boreing casing
							Hook to pump
							Cement as follows:
1044	8.2	0	-	✓		79	START Pumping Desc. Flush
	8.2	12.0	-	✓		226	Finish Pumping Desc. Flush
	6.7	3.0	-	✓		226	START Pumping Flush W/
1048	8.2	0	✓	✓		226	START Pumping Superflush
	8.2	12.0	✓	✓		226	Finish Pumping Superflush
	6.7	3.0	✓	✓		226	START Pump Flush W/ SPACER
1053		0	✓	✓		0	START mixing Cement (HLC)
		5.2	✓	✓		25	Plug Bathole (1.5 SKS)
1057	6.5 NK	5.2	✓	✓		250	START Pumping Cement down CS6
1113	6.5 AK	109.1	-	-		250	Finish mixing Cement (3oz)
							Wash out Rings & Lines
							RELEASE Plug
1118	8.0	0	✓	✓		140	START DISPLACEMENT
1131	3.0	117.8	✓	✓		750	Plug Down
						1500	PRESSURE UP & HOLD
1141						0	RELEASE PRESSURE
							LATCH DOWN Plug HOLDING
							UNHOOK FROM WELL & PLACE
							SWABBE & WALK ON CASING w/ NO PRESSURE
							CONFIDENTIAL
1300							JOB COMPLETE
							CONFIDENTIAL
							THANK YOU
							CALL AGAIN
							DRUG
							& GLEN

ORIGINAL

CHARGE TO:
OXY USA INC.
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET
 No. **614136 - 1**
 PAGE 1 OF 2

FORM 1906 R-13

1. SERVICE LOCATIONS FRAG KS.	WELL/PROJECT NO. 14-1	LEASE HARBACH	COUNTY/PARISH BARBER	STATE KS	CITY/OFFSHORE LOCATION	DATE 04-5-94	OWNER CS/IMG
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR ALLEN DRILL RIG #2	RIG NAME/NO.	SHIPPED WELL SITE	DELIVERED TO WELL SITE	ORDER NO.
3.	WELL TYPE G2	WELL CATEGORY 01	JOB PURPOSE 010	WELL PERMIT NO. API-15-007-22439-000	WELL LOCATION 227-33	RECEIVED STATE CORPORATION COMMISSION JUL 4 1994 CONSERVATION DIVISION Wichita Kansas	
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS 21-35						

 No. **181995**
RELEASED
AUG 18 1995
CONFIDENTIAL

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE	AMOUNT
		LOC	ACCT	DF		U/M	U/M		
000-117		1			MILEAGE	43	mi.	2.75	117.75
001-014		1			Pump CHARGE	6	HRS	1000	1060.00
030-014	482.15282	1			8 5/8" PLUG SW	1	EA.		120.00
16A	830.2171	1			8 5/8" TEXAS PATTERN GAGING SHOE	1	EA.		141.00
24A	815.19502	1			8 5/8" INSECT FLOAT VALVE	1	EA.		171.00
27	815.19415	1			AUTO FILL UP ASSEM.	1	EA.		55.00
40	806.60059	1			8 5/8" S-4 CENTRALIZERS	0	EA.	721.00	N/A
320	806.70060	1			8 5/8" CEMENT BASKETS	2	BD.	122.00	244.00
350	890.10802	1			HALLIBURTON WELD A	1	EA.		14.50
001-018		1			ADD. HRS.	6	EA.	235.00	1410.00
001-018		1			ADD. HRS.	6	EA.	235.00	N/C

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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.

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE: *Donald Herman*

DATE SIGNED: **4-5-94** TIME SIGNED: **0600** 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 3345150
TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?					FROM CONTINUATION PAGE(S) 8955133
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 12300183
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND							

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): **DON HERMAN** CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE): *Donald Herman* HALLIBURTON OPERATOR/ENGINEER: **M.P. Bolyard** EMP #: **50848** HALLIBURTON APPROVAL:



TICKET CONTINUATION

ORIGINAL

TICKET No. 614136

FORM 1911 R-8

CUSTOMER OXY USA INC	WELL HARBAUGH H-1	DATE 04-05-94	PAGE 2	OF 2
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PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION					UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	U/M	QTY.	U/M		
504-316		1				HALLIBURTON LIGHT CEMENT	350	sk			6 43	2250 50
509-406	890.50812	1				CALCIUM CHLORIDE BLENDED 2%	6	sk			28 25	169 50
507-210	390.50071	1				FLOCELE BLENDED .25LB	88	lb			1 40	123 20
504-308	516.00261	1				STANDARD CEMENT	250	sk			6 96	1740 00
509-406	890.50812	1				CALCIUM CHLORIDE BLENDED 2%	5	sk			28 25	141 25
507-210	890.50071	1				FLOCELE BLENDED .25LB	63	lb			1 40	88 20
<p>RELEASED AUG 18 1995 FROM CONFIDENTIAL</p> <p>CONFIDENTIAL</p> <p>ORIGINAL</p> <p>CONFIDENTIAL</p> <p>JUL 11 1995</p>												
						LIGHT-LOADED ON TRUCK #4142/7488-SPLIT						
						STD-LOADED ON TRUCK #4413-SPLIT						
500-207		1				SERVICE CHARGE					CUBIC FEET 633	1 35 854 55
500-306		1				MILEAGE CHARGE	TOTAL WEIGHT 56,043	LOADED MILES 40 83	TON MILES 2941 38		95	1120 86 6004 82 5883 85

CONTINUATION TOTAL 6432.02

FIELD _____ SEC. **27** TWP. **33S** RING. **14W** COUNTY **BARCEL CO.** 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		24	8 7/8	0	1060	
LINER						
TUBING						
OPEN HOLE			12 1/4	KB	1072	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
1.5" SET FLOAT	1	H.E.S.
Auto Kill up	1	"
GUIDE SHOE		
CENTRALIZERS	2	"
BOTTOM PLUG		
TOP PLUG	1	"
HEAD P.C.	1	"
PACKER WELD A		"
OTHER - CMT. BASKETS	2	"

JOB DATA

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 4-5	DATE 4-5	DATE 4-5	DATE 4-5
TIME 24:30	TIME 04:30	TIME 12:30	TIME 23:30

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
M. BOLWARD 50848	38423 P/U	PRATT KS
R. GORDLEY 08500	51936 COMB.	PRATT KS
R. PARSON 41254	4415- BULK	PRATT KS
T. SEBA 9-1460	4142-7188 BULK	PRATT KS
M. MONAGHAN 09017	50808 BULK	PRATT KS

MATERIALS RELEASED

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. _____ IN _____
 PERFRAC BALLS TYPE _____ GAL.-LB. _____ IN _____
 OTHER _____
 OTHER _____

DEPARTMENT **CEMINT**
 DESCRIPTION OF JOB **CEMENT 8 7/8" 24" SURF. CSC**
 JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.
 CUSTOMER REPRESENTATIVE **Donald Jensen**
 HALLIBURTON OPERATOR **M. R. Bolward** COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	ADDITIONS	YIELD CU.FT./SK.	MIXED LBS./GAL.
	350	H.L.C. STD.	2% C.C. 1/4" FLOCEL	1.69	13.1
	250	STD.	2% C.C. 1/4" FLOCEL	1.18	15.6
	250	H.C.P. STD.	2% C.C. 1" Annul.	1.69	13.1

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 **40.47** REASON **1.5" SET FLOAT**

VOLUMES

PRESLUSH: BBL.-GAL. _____ TYPE _____
 LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____ DISPL: BBL. **64.8**
 CEMENT SLURRY: BBL.-GAL. **105.35 H.C. + 52.54 = 157.89**
 TOTAL VOLUME: BBL.-GAL. _____
RAMARKS
CEMT. ON COLLARS - DIDN'T USE
BASKETS ON JTS. 11 & 12

CUSTOMER: **OKY USA INC.**
 LEASE: **HARBROUGH**
 WELL NO: **H-1**
 JOB TYPE: **CEMINT**
 DATE: **4-5-74**

CUSTOMER OKY USA INC.	WELL NO. H-1	LEASE Harcourt	JOB TYPE CEMENT	TICKET NO. 614134
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CHRT NO.	DATE	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	24:30							CALLS OUT
	04:30							ON LOCATION
								RIG MAKING BIT TRIP DRILL
								DEPTH @ 878' GOING TO 1059'
								RUN SCOT EQUIP
								TEXAS GUIDE SIDE INSERT & FILLUP
								DIDN'T RUN CMT. RAN 2 BASKETS
								ON STS 11 & 18
								BREAK CIRC. NO RETURNS
								RIG PUMPED OVER CMT. CAP
	1230							MIX CMT. 350 SKS HLC
								250 SKS STD
		4	0			200		PUMPING 600 SKS TOTAL DOWN CSG
	1251	4	54					SLOW RATE
	1333		157					FINISHED MIX NO RETURNS
								RELEASE PLUG
	1334	2	0			0		START DISI (RELEASED H2O)
	1410	5	64.4			600		PLUG DOWN NO RETURNS SHUT WASH UP
								CALL FOR MORE CMT TO 1"
								250 SKS HLC
								RUN 1" TBG TO 230'
	1410	1 1/2	0			250		MIX CMT 100 SKS HLC
								PUMPING DOWN 1" FLUID STANDING
								NO CIRCULAR BUT NOT CIRC.
								NO RETURNS W/T DOZ CMT LEFT
								To Pump NO CMT RETURNS
	1945		30			0		SHUT DOWN PULL 1" WAIT 2 HRS.
	2150							MIXING CMT
		1 1/2	0			275		PUMPING
			5					FINISHED MIX 100 SKS HLC
	2220		45					PUMP TBG DOWN GOOD CMT RETURNS
								LAST 2 BLS
								WASH UP RACK UP
	2330							JOB COMP
								TOTAL CMT 850 SKS