

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

L.

Operator: License # 5447

Name: OXY USA Inc.

Address P. O. Box 300

City/State/Zip Tulsa, ok 74102-0300

Purchaser: Northern Natural Pipeline

Operator Contact Person: Raymond Hui

Phone (918) 561-3548

Contractor: Name: Cheyenne Drilling Co.

License: 5382

Wellsite Geologist: none

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:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBTB

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

8-19-96 9-2-96 10-2-96
Spud Date Date Reached TD Completion Date

API NO. 15-175-21554-00-00

County Seward

S/2- N/2 SW 1/4 Sec. 30 Twp. 34S Rge. 33 E W

1650 FSL feet from ~~S~~ (circle one) Line of Section

3960 FEL feet from ~~E~~ (circle one) Line of Section

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

Lease Name Kirk A Well # 2

Field Name Salley

Producing Formation Morrow

Elevation: Ground 2879' KB 2890'

Total Depth 6760' PBTB 6680'

Amount of Surface Pipe Set and Cemented at 1910' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set DV Tool at 3112' Feet

If Alternate II completion, cement circulated from _____

feet depth to 11-15-96 w/ 11-15-96 SX cmt.

Drilling Fluid Management Plan A.H.J. 9-23-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 3200 ppm Fluid volume 1800 bbls

Dewatering method used Evaporation KCC

Location of fluid disposal if hauled offsite: _____

RELEASED

NOV 12

Operator Name _____

Lease Name SEP 25 1998 License No. _____

Quarter Sec. Twp. S Rng. E/W

County FROM CONFIDENTIAL 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 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 Raymond Hui

Title Staff Analyst Date 11-4-96

Subscribed and sworn to before me this 4th day of November, 19 96

Notary Public Loren Anne Wells

Date Commission Expires: 9-22-96

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 type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep <input type="checkbox"/> NGPA
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug <input type="checkbox"/> Other (Specify)

Operator Name: OXY USA Inc. Lease Name: Kirk A. O'Connell Well # 2
 Sec. 30 Twp. 34S Rge. 33 East County: Seward
 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 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: Ran Microlog; Spectral
 Density; High Resolution Induction

Name	Formation (Top), Depth and Datums	
	Top	Datum
Heebner	4332	1425
Toronto	4352	1387
Lansing	4472	1507
Marmaton	5206	2241
Morrow	5860	2895
Chester	6186	3221
St. Gen	6524	3559
St. Louis	6604	3639

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	1910'	CL A	495 sx	2% cc
Production	7 7/8"	5 1/2"	14; 15.5#	6687'	CL A	1st Stage: 410 sx	
		DV Tool at 3112'				2nd Stage: 360 sx	

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				

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)	
		Amount	Depth
4	Morrow 6138-6152'	Acidized w/2000 gal 7 1/2% FE	
		acid; Frac'd w/ 61290 gal	
		70 quality CO2 foam	

TUBING RECORD		Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.	Producing Method				<input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
10-2-96					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		1500			

Disposition of Gas: **METHOD OF COMPLETION** Vented Sold Used on Lease (If vented, submit ACO-18.)

Production Interval Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

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ORIGINAL

**OXY USA, INC.
DST #1
Kirk A #2
1650 FSL & 3960 FEL
Sec. 30-34S-33W
Seward County**

15-175-21554

Tested Lower Morrow 6135-6174'. Circulated for 1.5 hrs. RU DST tools w/108' tail pipe set pkrs. At 6127-6175'. Opened tools GTS 11 min. 30 min. Flow 253.000 CFPD. Found 45' mud in DP. 60 min. SIP 917 PSIG. 120 min. SIP 914 PSIG.

KCC

NOV 12

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RECEIVED
KANSAS CORP. OFFICE
NOV 15 11:57

RELEASED

SEP 25 1998

FROM CONFIDENTIAL



JOB LOG HAL-2013-C

8-20-96

CUSTOMER: oxy USA
 WELL NO.: 2
 LEASE: Kirk A
 JOB TYPE: 010
 TICKET NO.: 920519

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	

	11:30							Called out - Requested "1830"
	18:00							ON LOC - T.O.H.
	19:00							Run Csg @ 878'
	20:35							ON Bottom @ 1906.47'
	20:45							Hooked up to circ.

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ORIGINAL

	20:00							Hook-up to cmt
	21:06	0-6	284		✓	↑	0/135	Pump lead
	21:50	6	24		✓		70	Pump trail
	21:55	6-0				↓	70	Shut down - Drop plug
	21:57	2-6	118		✓	↑	0/350	Pump Displ - washup tak
	21:16	6-2			✓	↓	350/310	Reduce Rate @ 110 bbls in
	22:18	2-0			✓	↑	350/1400	Plug Down
					✓	↓	1400	Release Press - Float held

Cement to surface. ✓
 Approx: 80 bbls or 140 sks

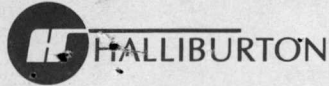
RELEASED
 SEP 25 1998

Thank you!
 Jon + Danny + carw

FROM CONFIDENTIAL

KCC
 NOV 12
 CONFIDENTIAL

RECEIVED
 KANSAS CORP CONNM
 1998 NOV 15 A 11:57



JOB SUMMARY

HALLIBURTON DIVISION Mid Continent
 HALLIBURTON LOCATION Liberal KS

BILLED ON TICKET NO. 920519

WELL DATA

FIELD _____ SEC. 30 TWP. 29s RNG. 33w COUNTY SEWARD 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	N	24	8 5/8	KB	1906	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>8-20-96</u>	DATE <u>8-20-96</u>	DATE <u>4-20-96</u>	DATE <u>8-20-96</u>
TIME <u>1630</u>	TIME <u>1800</u>	TIME <u>2000</u>	TIME <u>2219</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>Insert / Fill up</u>	<u>1</u>	<u>Howco</u>
FLOAT SHOE		
GUIDE SHOE <u>Reg</u>	<u>1</u>	
CENTRALIZERS <u>Reg</u>	<u>4</u>	
BOTTOM PLUG <u>Ec 400</u>	<u>1</u>	
TOP PLUG <u>Six</u>		
HEAD <u>PC</u>		
PACKER <u>Basket</u>		
OTHER <u>well</u>		

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
<u>KCC</u>		
<u>NOV 12</u>		
<u>CONFIDENTIAL</u>		

DEPARTMENT 5001

DESCRIPTION OF JOB Set SURFACE Pipe

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

CUSTOMER REPRESENTATIVE X John Smith

HALLIBURTON OPERATOR Tom Payer COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>495</u>	<u>PT 110222</u>		<u>B</u>	<u>3% CC, 1/2% Flocc</u>	<u>3.22</u>	<u>11.1</u>
	<u>100</u>	<u>PT</u>			<u>2% CC, 1/4% Flocc</u>	<u>1.32</u>	<u>14.8</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.-GAL. 119

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL.-GAL. 283.9 + 23.8

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

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET 41 REASON Shoe Joint

REMARKS

CUSTOMER

CUSTOMER dry USA

LEASE Kirk 11A

WELL NO. 2

JOB TYPE 910

DATE 8-20-96

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MANSAS CORP COMM
996 NOV 15 A 11:57

JOB LOG HAL-2013-C

CUSTOMER Oxy USA INC	WELL NO. #2	LEASE KIRK	JOB TYPE 035 (DRLS)	TICKET NO. 920520
--------------------------------	-----------------------	----------------------	-------------------------------	-----------------------------

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0530							Called out - Requested 0900 hrs
	0830							ON loc. -
	0920							Run csg. 14" x 15.5" @ 5 1/2
	1050							Run D.V. Tool #29974
	1210							On Bottom @ 6683 ft
	1220							Made circulation
	1254							Hook-up to cement
	1256	0-2	10			1/250		Pump Mud Flush
	1300	2-7 1/2	149			250		Pump lead cement
	1318	7 1/2-6	49			200		Pump tail cement
	1326	6-0				1/150		Shot down - Drop plug - washup
	1330	0-6	90			1/250		Pump Displacement
	1345	6-8	72			250/500		Pump mud
	1352	8-2 1/2				800/100		Reduce RATE
	1358	2 1/2-0				850/1700		Plug Down
	1359					1700		RELEASE PRESS. - Plug latched
	1401							Drop opening plug
	1412	0-2	1			1/100		Open MSC
	1415							RELEASED
								HK to circ @ Rig
								SEP 25 1998
								FROM CONFIDENTIAL
								2 nd stage
								KCC
								NOV 12
	1756	0-1 1/2	3			1/50		Plug RAT hole 15 sks
	1802	0-1 1/2	2			1/50		Plug mouse hole
	1807							HK to cement
	1808	0-3	10			1/100		Pump Mud Flush
	1811	3-7 1/2	129			10/100		Pump lead cement
	1828	7 1/2-6	46			200		Pump tail cement
	1836	2-0				10%		Shot down - Drop plug - washup
	1838	0-7	78			1/100		Pump Displ. @ H2O
	1848	7-2 1/2				700/600		Reduce RATE
	1850	2 1/2-0				700/1850		Plug Down
						1850		Release press - msc closed
								CEMENT to SURFACE on 2 nd stage
								Approx. 18 bbls, on 31 sks

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ORIGINAL

RECEIVED
 KASAS CORP
 NOV 15 AM 11:00

CONFIDENTIAL

CUSTOMER

THANK YOU, Tom + Sonny + CREW

WELL DATA

FIELD Seward SEC. 30 TWP. 34S RNG. 33W COUNTY Seward 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 _____ 14.5 5 1/2 KB 5522'

LINEAR _____ 15.5 " 5522' 6683'

TUBING _____

OPEN HOLE _____

PERFORATIONS _____

PERFORATIONS _____

PERFORATIONS _____

SHOTS/FT. _____

ORIGINAL

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>E.S. Cemented 5 1/2</u>	<u>1</u>	<u>Howco</u>
FLOAT SHOE <u>insert 5 1/2</u>	<u>1</u>	<u>"</u>
GUIDE SHOE <u>Fillup Assy. "</u>	<u>1</u>	<u>"</u>
CENTRALIZERS <u>"</u>	<u>22</u>	<u>"</u>
BOTTOM PLUG <u>DV PLUG Set "</u>	<u>1</u>	<u>"</u>
TOP PLUG <u>FAS GRIP "</u>	<u>1</u>	<u>"</u>
HEAD <u>P.O.</u>		
PACKER <u>BASKET</u>	<u>2</u>	<u>"</u>
OTHER <u>WELD A</u>	<u>2</u>	<u>"</u>

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. _____ IN _____

PERFPAC BALLS TYPE _____ GAL.-LB. _____ QTY. _____

OTHER _____

OTHER _____

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>9-1-96</u>	DATE <u>9-1-96</u>	DATE <u>9-1-96</u>	DATE <u>9-1-96</u>
TIME <u>0605</u>	TIME <u>0840</u>	TIME <u>1254</u>	TIME <u>1450</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>T. Poyer 48120</u>	<u>420042</u>	<u>LIBERAL KS</u>
<u>S. TATE</u>	<u>52823</u>	<u>" "</u>
<u>E0568</u>	<u>75374</u>	
<u>S. TELFORD</u>	<u>50866</u>	<u>HUBBARD KS</u>
<u>H4817</u>	<u>7649</u>	
<u>D. CORPENING</u>	<u>4115</u>	<u>" "</u>
<u>62728</u>	<u>75237</u>	

DEPARTMENT 5001

DESCRIPTION OF JOB 2 STAGE 1046 STAGE

w/ DV

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

RELEASED
SEP 25 1998

CUSTOMER REPRESENTATIVE Tom Poyer

HALLIBURTON OPERATOR _____

COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1st</u>	<u>260</u>	<u>Mow Power Plus</u>		<u>B</u>	<u>2000 1/2% Fluocel</u>	<u>3.22</u>	<u>11.1</u>
	<u>150</u>	<u>"</u>		<u>B</u>	<u>"</u>	<u>1.84</u>	<u>13.2</u>
<u>2nd</u>	<u>275</u>	<u>"</u>		<u>B</u>	<u>"</u>	<u>3.22</u>	<u>11.1</u>
	<u>140</u>	<u>"</u>		<u>B</u>	<u>"</u>	<u>1.84</u>	<u>13.2</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRES LUSH BBL - GAL. 1200 TYPE MF-1

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

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL - GAL. _____ DISPL: BBL - GAL. 141.3

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL - GAL. 200 + 175

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL - GAL. _____

ORDERED _____ AVAILABLE _____ USED _____ AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____ CEMENT LEFT IN PIPE _____

FEET 42.70 REASON Shoe Joint

REMARKS _____

CUSTOMER

CUSTOMER: OXY USA
LEASE: KICK
WELL NO.: 920520
JOB TYPE: 035
DATE: 920520