

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

2/24/14

ORIGINAL

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

Blanks must be Filled

OPERATOR: License # 5447
 Name: OXY USA, INC.
 Address 1: P.O. BOX 27570
 Address 2: _____
 City: HOUSTON State: TX Zip: 77227 + 7570
 Contact Person: LAURA BETH HICKERT
 Phone: (620) 629-4253
 CONTRACTOR: License # 33784
 Name: TRINIDAD DRILLING LIMITED PARTNERSHIP
 Wellsite Geologist: N/A
 Purchaser: N/A

API No. 15 - 081-21962-01-00
 Spot Description: _____
NE SW SE SE Sec. 3 Twp. 30 S. R. 32 East West
462 Feet from North / South Line of Section
813 Feet from East / West Line of Section
 Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
 County: HASKELL
 Lease Name: LONGBOTHAM Well #: 8
 Field Name: DIADEN
 Producing Formation: NONE

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil WSW SWD SIOW
 Gas D&A ENHR SIGW
 OG GSW Temp. Abd.
 CM (Coal Bed Methane)
 Cathodic Other (Core, Expl., etc.): _____

Elevation: Ground: 2887 Kelly Bushing: 2898
 Total Depth: 5965 TVD 5757 Plug Back Total Depth: _____
 Amount of Surface Pipe Set and Cemented at: 1817 Feet
 Multiple Stage Cementing Collar Used? Yes No
 If yes, show depth set: _____ Feet
 If Alternate II completion, cement circulated from: _____
 feet depth to: _____ w/ _____ sx cmt.

If Workover/Re-entry: Old Well Info as follows:
 Operator: _____
 Well Name: _____
 Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to ENHR Conv. to SWD
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

09/17/2011	09/24/2011	12/09/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

Drilling Fluid Management Plan
 (Data must be collected from the Reserve Pit)
 Chloride content: 12000 ppm Fluid volume: 5500 bbls
 Dewatering method used: HAULED TO DISPOSAL
 Location of fluid disposal if hauled offsite: _____
 Operator Name: HAYDEN OPERATING
 Lease Name: LIZ SMITH #3 License #: 33562
 Quarter _____ Sec. 26 Twp. 30 S. R. 34 East West
 County: HASKELL Permit #: D26802

CONFIDENTIAL

FEB 27 2012

FEB 24 2014

KCC WICHITA

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. Rules 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.

AFFIDAVIT

I am the affiant and I hereby certify that 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.

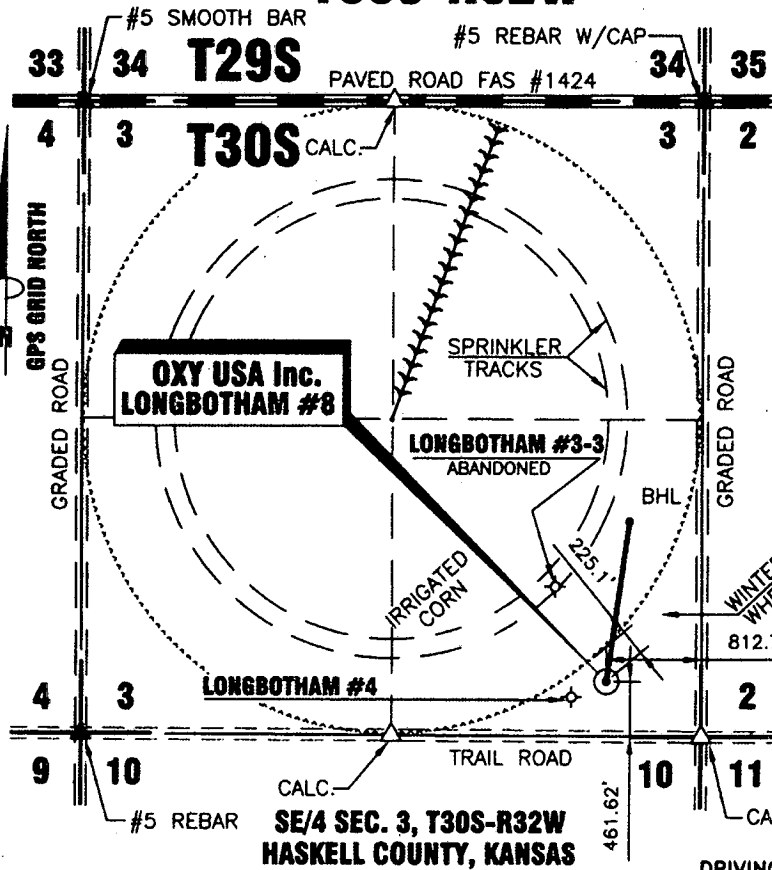
Signature: Laura Beth Hickert
 Title: REGULATORY Date: 02/24/2012

KCC Office Use ONLY

Letter of Confidentiality Received
 Date: 2-24-12 to 2-24-14
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
 ALT I II III Approved by: NY Date: 3-17-12

T30S-R32W

"ASBUILT"



DATE 2/20/2012

OPERATOR OXY U.S.A.

WELL NAME LONGBOTHAM #8

LOCATION SE/4 SEC. 3, T30S-R32W

TOP HOLE LOCATION

FOOTAGES & 812.79' F E L

RELATIONS 461.62' F S L

ELEVATION 2886.78'

BOTTOM HOLE LOCATION

FOOTAGES & 621.89' F E L

RELATIONS 1695.07' F S L

ELEVATION -2870.02'

DISTANCE TO EXISTING WELL 327.05' LONGBOTHAM #4

AUTHORIZED BY BETH HICKERT

CROP DRYLAND WINTER WHEAT

TOP HOLE LOCATION

LATITUDE 37°27'41.39143" N = 37.46150° N

LONGITUDE 100°48'01.93730" W = 100.80054° W

STATE PLANE COORD.
KANSAS SOUTH ZONE
NAD 27 X = 1332323.37
Y = 297646.97

BOTTOM HOLE LOCATION

LATITUDE 37°27'53.56826" N = 37.464880° N

LONGITUDE 100°47'59.53441" W = 100.799871° W

STATE PLANE COORD.
KANSAS SOUTH ZONE
NAD 27 X = 1332547.42
Y = 298873.39

NOTE: CONTRACTOR TO CONTACT ONE CALL @ 1-800-DIG SAFE PRIOR TO ANY EXCAVATION OR CONSTRUCTION.

DRIVING DIRECTIONS USED TO STAKE WELL FROM KNOWN LANDMARK OR CITY FROM:

FROM THE INTERSECTION HWY #83 & FAS #1424 WEST OF SUBLETTE, KS; THENCE EAST 4.0 MILES; THENCE SOUTH 1.0 MILE; THENCE WEST 812.79 FT.; THENCE NORTH 461.62 FT. INTO.



Theodore V. Harder
Theodore V. Harder, P.E., No. 1097

OXY USA Inc.
1117 N. HIGHWAY 27
P.O. DRAWER 330
ELIHART, KANSAS 67850
(620) 697-2500

NO.	OWNL	REVISIONS	DATE

HARDER
AND ASSOCIATES "locating our world"
LAND SURVEYING - GPS SPECIALISTS
P.O. BOX 518 514 MORTON
Elkhart, Kansas 67850
Phone: (620) 697-2696
Fax: (620) 697-4176
E-MAIL: tharder@elkhart.com

ASBUILT WELL LOCATION OF THE LONGBOTHAM #8 LOCATED IN THE SE/4 SEC. 3, T30S - R32W HASKELL COUNTY, KANSAS

DRAWN BY: DRF CHECKED BY: TVH APPROVED BY: B. HICKERT AUTHORIZED BY: B. HICKERT

DRAWING NO. OX1211A14

SCALE: 1" = 1500' DATE: 2/20/2012
WORK ORDER NO.:
FEB 24 2012

KCC

RECEIVED
FEB 27 2012
KCC WICHITA



Scientific Drilling

Oxy USA Inc.

Haskell County Kansas

Section 3 - 30S - 32W

Longbotham #8

Original Wellpath

Survey: Survey #1 MWD

EOW Completion Report

26 September, 2011

RECEIVED

FEB 27 2012

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FEB 24 2014

KCC





Scientific Drilling International

EOW Completion Report



Company:	Oxy USA Inc.	Local Co-ordinate Reference:	Well Longbotham #8
Project:	Haskell County Kansas	TVD Reference:	WELL #8 @ 2897.8usft
Site:	Section 3 - 30S - 32W	MD Reference:	WELL #8 @ 2897.8usft
Well:	Longbotham #8	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	Original Wellpath	Database:	EDMOKC

Project	Haskell County Kansas, Haskell County Kansas, South Kansas		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Kansas South 1502		

Site	Section 3 - 30S - 32W, SHL of Longbotham #6				
Site Position:	Northing:	297,622.28 usft	Latitude:	37° 27' 41.140 N	
From: Map	Easting:	1,332,291.71 usft	Longitude:	100° 48' 2.322 W	
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	-1.41 °

Well	Longbotham #8				
Well Position	+N/-S	0.0 usft	Northing:	297,646.85 usft	
	+E/-W	0.0 usft	Easting:	1,332,323.24 usft	
Position Uncertainty	0.0 usft	Wellhead Elevation:	2,897.8 usft	Ground Level:	2,886.8 usft

Wellbore	Original Wellpath				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2011	06/28/11	6.54	65.29	51,923

Design	Original Wellpath				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	8.31	

Survey Program	Date 09/26/11				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
95.0	5,965.0	Survey #1 MWD (Original Wellpath)	SDI MWD	Scientific Drilling Intl. MWD - Standard ver 1.0.1	

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00
95.0	0.29	137.06	95.0	-0.2	0.2	-0.2	0.31
192.0	0.35	129.80	192.0	-0.5	0.6	-0.5	0.07
313.0	0.51	118.82	313.0	-1.0	1.3	-0.8	0.15
405.0	0.47	89.22	405.0	-1.2	2.1	-0.9	0.28
529.0	0.53	55.83	529.0	-0.9	3.0	-0.5	0.24
625.0	0.55	23.59	625.0	-0.2	3.6	0.3	0.31
721.0	0.53	352.80	721.0	0.6	3.7	1.2	0.30
817.0	0.77	350.47	817.0	1.7	3.6	2.2	0.25
913.0	0.93	353.25	913.0	3.1	3.4	3.6	0.17
1,010.0	0.89	349.10	1,009.9	4.6	3.1	5.0	0.08
1,106.0	0.94	352.15	1,105.9	6.1	2.9	6.5	0.07



Scientific Drilling International

EOW Completion Report



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Project:	Haskell County Kansas	TVD Reference:	WELL #8 @ 2897.8usft
Site:	Section 3 - 30S - 32W	MD Reference:	WELL #8 @ 2897.8usft
Well:	Longbotham #8	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	Original Wellpath	Database:	EDMOKC

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	V. Sec (usft)	DLeg (°/100usft)	
1,201.0	0.97	340.36	1,200.9	7.7	2.5	8.0	0.21	
1,297.0	0.66	349.52	1,296.9	9.0	2.1	9.2	0.35	
1,393.0	0.65	347.72	1,392.9	10.1	1.9	10.2	0.02	
1,489.0	0.74	8.84	1,488.9	11.2	1.9	11.4	0.28	
1,585.0	0.51	31.63	1,584.9	12.2	2.2	12.4	0.35	
1,681.0	0.66	40.66	1,680.9	13.0	2.8	13.2	0.18	
1,767.0	0.91	37.07	1,766.9	13.9	3.5	14.3	0.30	
1,910.0	0.86	33.19	1,909.9	15.7	4.8	16.2	0.05	
1,972.0	0.82	18.94	1,971.9	16.5	5.2	17.1	0.34	
2,068.0	3.43	19.69	2,067.8	19.9	6.4	20.6	2.72	
2,164.0	6.15	20.60	2,163.4	27.4	9.2	28.4	2.83	
2,260.0	8.12	11.09	2,258.7	38.8	12.3	40.2	2.39	
2,356.0	9.61	10.81	2,353.5	53.4	15.1	55.0	1.55	
2,452.0	11.23	7.98	2,448.0	70.5	17.9	72.3	1.77	
2,548.0	13.33	7.68	2,541.8	90.7	20.7	92.8	2.19	
2,644.0	14.87	6.36	2,634.9	113.9	23.5	116.1	1.64	
2,740.0	17.13	7.26	2,727.1	140.2	26.7	142.6	2.37	
2,836.0	19.67	10.18	2,818.2	170.1	31.3	172.9	2.81	
2,932.0	20.13	9.46	2,908.5	202.3	36.9	205.5	0.54	
3,028.0	19.64	9.99	2,998.8	234.5	42.4	238.2	0.54	
3,124.0	20.58	9.30	3,088.9	267.1	47.9	271.2	1.01	
3,220.0	20.59	8.84	3,178.8	300.4	53.2	304.9	0.17	
3,316.0	19.86	8.95	3,268.9	333.2	58.4	338.1	0.76	
3,412.0	19.95	7.95	3,359.1	365.5	63.2	370.8	0.37	
3,508.0	19.25	7.01	3,449.6	397.4	67.4	403.0	0.80	
3,604.0	20.74	7.16	3,539.8	430.0	71.4	435.8	1.55	
3,700.0	20.21	6.28	3,629.7	463.4	75.3	469.4	0.64	
3,796.0	20.58	7.06	3,719.7	496.6	79.2	502.8	0.48	
3,892.0	20.39	5.83	3,809.6	530.0	83.0	536.4	0.49	
3,988.0	21.35	8.11	3,899.3	563.9	87.2	570.6	1.31	
4,084.0	21.38	7.50	3,988.7	598.6	91.9	605.6	0.23	
4,180.0	21.36	6.84	4,078.1	633.3	96.3	640.5	0.25	
4,276.0	20.19	6.32	4,167.9	667.1	100.2	674.6	1.23	
4,371.0	19.75	8.41	4,257.2	699.3	104.3	707.0	0.88	
4,467.0	20.64	8.62	4,347.3	732.0	109.2	740.1	0.93	
4,563.0	20.16	8.47	4,437.3	765.1	114.2	773.6	0.50	
4,658.0	19.12	7.55	4,526.7	796.7	118.7	805.5	1.14	
4,754.0	19.54	9.27	4,617.3	828.2	123.3	837.3	0.74	
4,850.0	21.34	8.95	4,707.3	861.3	128.6	870.8	1.88	
4,946.0	20.67	9.47	4,796.9	895.2	134.1	905.2	0.72	
5,042.0	18.92	9.33	4,887.2	927.3	139.4	937.7	1.82	
5,138.0	19.35	9.94	4,977.9	958.3	144.7	969.2	0.49	
5,234.0	19.20	10.15	5,068.5	989.5	150.2	1,000.9	0.17	
5,329.0	19.49	7.66	5,158.2	1,020.6	155.1	1,032.3	0.92	



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Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	Original Wellpath	Database:	EDMOKC

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (%/100usft)
5,425.0	19.75	9.57	5,248.6	1,052.5	159.9	1,064.6	0.72
5,521.0	19.65	10.73	5,339.0	1,084.4	165.6	1,096.9	0.42
5,616.0	19.14	9.45	5,428.6	1,115.4	171.2	1,128.4	0.70
5,712.0	19.59	9.68	5,519.1	1,146.8	176.5	1,160.3	0.48
5,808.0	20.41	8.26	5,609.4	1,179.2	181.6	1,193.1	0.99
5,915.0	19.89	8.59	5,709.8	1,215.7	187.0	1,229.9	0.50
5,965.0	19.89	8.59	5,756.8	1,232.5	189.5	1,247.0	0.00

Checked By: _____ Approved By: _____ Date: _____