

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
September 1999  
Form Must Be Typed

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

Operator: License # 5208  
Name: ExxonMobil Oil Corporation  
Address: P. O. Box 4358  
City/State/Zip: Houston, Texas 77210-4358  
Purchaser: spot market  
Operator Contact Person: Jacqueline Davis  
Phone: (281) 654-1913  
Contractor: Name: Key Energy Services  
License: 165133  
Wellsite Geologist: \_\_\_\_\_  
Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)  
If Workover/Re-entry: Old Well Info as follows:  
Operator: Anadarko Petroleum Corp  
Well Name: HJV Brecheisen "A" #1  
Original Comp. Date: 7/5/03 Original Total Depth: 6700  
 Deepening  Re-perf.  Conv. to Enhr./SWD  
 Plug Back  Plug Back Total Depth  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?)  Docket No. \_\_\_\_\_  
9/11/06 7/4/03 10/11/06  
Spud Date or Date Reached TD Completion Date or  
Recompletion Date Recompletion Date

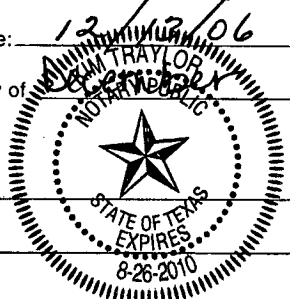
API No. 15 - 189-22442-0002  
County: Stevens  
C NE NE Sec. 31 Twp. 34 S. R. 38  East  West  
660 feet from S (N) (circle one) Line of Section  
660 feet from (E) W (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW SW  
Lease Name: G. W. Shell Well #: 2  
Field Name: Panoma  
Producing Formation: Council Grove  
Elevation: Ground: 3286' Kelly Bushing: 3295'  
Total Depth: 6700' Plug Back Total Depth: 3065'  
Amount of Surface Pipe Set and Cemented at 1803 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 cm.

**Drilling Fluid Management Plan**  
(Data must be collected from the Reserve Pit)  
Chloride content 1000 ppm Fluid volume 700 bbls  
Dewatering method used \_\_\_\_\_  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ 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 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.

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: Jacqueline Davis  
Title: Support Staff Asst Date: 12/13/06  
Subscribed and sworn to before me this 13 day of December, 2006  
Notary Public: Kim Taylor  
Date Commission Expires: Aug 26, 2010



**KCC Office Use ONLY**

Letter of Confidentiality Attached  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

**RECEIVED**  
KANSAS CORPORATION COMMISSION  
**DEC 14 2006**

Operator Name: ExxonMobil Oil Corporation Lease Name: G. W. Shell Well #: 2  
 Sec. 31 Twp. 34 S. R. 38  East  West County: Stevens

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i>  List All E. Logs Run:  sent w/original completion	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum          sent w/original completion
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CASING RECORD <input 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"	21.8	1803'	P+MC/P+	450/150	3%CC, .1%FWCA
production		5 1/2"	15.5	3248'	unknown	unknown	unknown

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 <i>(Amount and Kind of Material Used)</i>	Depth
3	3002' - 3022'	500 gal 15% HCL, 1 PPA - 4 PPA sand stages w/N2 @ 65Q	3002-22

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		2 3/8"	3007'	-		
Date of First, Resumed Production, SWD or Enhr. see attached test			Producing Method			
			<input type="checkbox"/> Flowing <input 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
<input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Sumit ACO-18.)</i>	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	_____

**STATE OF KANSAS - CORPORATION**  
**ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST**

FORM G-2 Rev.

TYPE TEST: INITIAL     Deliverability     Open Flow    TEST DATE: 11/07/2006    API No. 15-187-22442-000

COMPANY: EXXONMOBIL OIL CORPORATION    LEASE: G W SHELL    WELL NO.: 2    99989

COUNTY:    LOCATION:    SECTION: 31    TWP: 34S    RNG (E/W): 38W    ACRES: 0.00

FIELD: PANOMA COUNCIL GROVE    RESERVOIR:    PIPELINE CONNECTION:

COMPLETION DATE:    PLUG BACK TOTAL DEPTH: 0    PACKER SET AT:

CASING SIZE:    WT:    I.D.:    SET AT:    PERF.:    TO:

TUBING SIZE:    WT.:    I.D.:    SET AT:    PERF.:    TO:

TYPE COMPLETION (Describe):    TYPE FLUID PRODUCTION:

PRODUCING THRU:    RESERVOIR TEMPERATURE °F:    BAR. PRESS - P<sub>s</sub>: 14.4 Psia

GAS GRAVITY - G<sub>s</sub>: 0.72    % CARBON DIOXIDE: 0.0    % NITROGEN: 0.0    API GRAVITY OF LIQUID: 0.0

VERTICAL DEPTH (H):    TYPE METER CONNECTION: FLANGE    (METER RUN) (PROVER) SIZE: 2.0000

SHUT IN PRESSURE: SHUT IN 11/11/2006 19 AT (AM)(PM) TAKEN 11/14/2006 19 AT (AM)(PM)

FLOW CHART: STARTED 11/07/2006 19 AT (AM)(PM) TAKEN 11/10/2006 19 AT (AM)(PM)

SHUT-IN OR FLOW	ORIFICE SIZE in.	(METER) (PROVER) PRESSURE Psig	DIFF. in (h <sub>w</sub> ) (h <sub>e</sub> )	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASING WELLHEAD PRESS.		TUBING WELLHEAD PRESS		DURATION HOURS	LIQUID PROD. Bbls
						PSIG	(P <sub>w</sub> )(P <sub>s</sub> )(P <sub>e</sub> ) Psia	psig	(P <sub>w</sub> )(P <sub>s</sub> )(P <sub>e</sub> ) Psia		
SHUT-IN						48.7	63.1			72	
FLOW	1.000	36.5	4.9	0	0	36.6	51.0			72	

COEFFICIENT (F <sub>w</sub> )(F <sub>p</sub> ) Mcfd	(METER) (PROVER) PRESSURE Psia	PRESS. EXTENSION $\sqrt{P_w \cdot h_w}$	GRAVITY FACTOR F <sub>g</sub>	FLOWING TEMP FACTOR F <sub>t</sub>	DEVIATION FACTOR F <sub>pv</sub>	RATE OF FLOW R Mcfd	GOR	G <sub>m</sub>
5950.3	50.9	15.86				95.00		

**(OPEN FLOW) (DELIVERABILITY) CALCULATIONS**

(P<sub>e</sub>)<sup>2</sup> = 3982    ;    (P<sub>w</sub>)<sup>2</sup> = 2601    ;    P<sub>s</sub> = 14.4    %    (P<sub>s</sub> - 14.4) + 14.4 =    ;    (P<sub>e</sub>)<sup>2</sup> = 0.207    ;    (P<sub>w</sub>)<sup>2</sup> = 207

$\frac{(P_e)^2 - (P_w)^2}{(P_e)^2 - (P_s)^2}$ or $\frac{(P_e)^2 - (P_w)^2}{P_e^2 - P_w^2}$	(P <sub>e</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	$\frac{P_e^2 - P_w^2}{P_e^2 - P_w^2}$ or $\frac{P_e^2 - P_w^2}{P_e^2 - P_w^2}$	LOG $\left[ \frac{P_e^2 - P_s^2}{P_e^2 - P_w^2} \right]$ or $\frac{P_e^2 - P_s^2}{P_e^2 - P_w^2}$	BACKPRESSURE CURVE "n"	n * LOG [ ]	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R X ANTILOG Mcfd
$\frac{3774^2 - 1381^2}{3774^2 - 1381^2}$	1381	2.734	0.4368	0.85	0.3712	2.351	0.19
$\frac{3774^2 - 1381^2}{3774^2 - 1381^2}$	1381	2.734	0.4368	0.85	0.3712	2.351	0.19

OPEN FLOW 223    Mcfd @ 14.65 Psia    DELIVERABILITY 223    Mcfd @ 14.65 Psia

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_.

Witness (if any) \_\_\_\_\_

RECEIVED  
 KANSAS CORPORATION COMMISSION

*Bernadette Cook*  
 Don Hickey For Company

For Commission    DEC 14 2006    Checked by \_\_\_\_\_

CONSERVATION DIVISION  
 WICHITA, KS