



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1183828  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

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.): \_\_\_\_\_

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
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ 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.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

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.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1183828

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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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

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				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Molitor Oil, Inc.
Well Name	Cross 4
Doc ID	1183828

All Electric Logs Run

Sonic Cement Bond Log
Dual Induction Log
Dual Compensated Perosity Log
Microresistivity Log





**DIAMOND TESTING, LLC**  
 P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
 (620) 653-7560 • (800) 542-7313  
 cross4d8t1

Company Molitor Oil, Inc. Lease & Well No. Cross No. 4  
 Elevation 1571 KB Formation Dennis-Swope Effective Pay \_\_\_\_\_ Ft. Ticket No. K056  
 Date 11-13-13 Sec. 31 Twp. 29S Range 8W County Kingman State Kansas  
 Test Approved By Max N. Lovely Diamond Representative Jason McLemore

Formation Test No. 1 Interval Tasted from 3,784 ft to 3,821 ft Total Depth 3,821 ft  
 Packer Depth 3,779 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Packer Depth 3,784 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Depth of Selective Zone Set \_\_\_\_\_ ft.

Top Recorder Depth (Inside) 3,765 ft Recorder Number 5513 Cap. 5,000 ps  
 Bottom Recorder Depth (Outside) 3,766 ft Recorder Number 5588 Cap. 6,000 ps  
 Below Straddle Recorder Depth \_\_\_\_\_ ft Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ ps

Drilling Contractor Hardt Drilling, LLC - Rig 1 Drill Collar Length 120 ft I.D. 2 1/4  
 Mud Type Chemical Viscosity 45 Weight Pipe Length \_\_\_\_\_ ft I.D. \_\_\_\_\_  
 Weight 8.3 Water Loss 8.0 cc Drill Pipe Length 3,631 ft I.D. 3 1/2  
 Chlorides 3,000 P.P.M. Test Tool Length 33 ft Tool Size 3 1/2-FH  
 Jars: Make Sterling Serial Number 7 Anchor Length 37 ft. Size 4 1/2-FH  
 Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH

Blow: 1st Open: Strong blow increasing. Off bottom of bucket on open. Gas to surface in 8 mins. Gauged gas. No blow back during shut-in.  
 2nd Open: Strong blow increasing. Off bottom of bucket on open. Gauged gas. Bottom of bucket blow back in 18 mins. lasting throughout.

Recovered 400 ft. of gassy, frothy oil = 5.692000 bbls. (Grind out: 80%-gas; 40%-oil)  
 Recovered 125 ft. of salt water = .661560 bbls. (Chlorides: 85,000 Ppm PH: 7.0 RW: .16 @ 58°)  
 Recovered 525 ft. of TOTAL FLUID = 6.353560 bbls.  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks Tool Sample Grind Out: Gas

Time Set Packer(s) 6:45 A.M. Time Started off Bottom 10:30 A.M. Maximum Temperature 116°  
 Initial Hydrostatic Pressure \_\_\_\_\_ (A) 1818 P.S.I.  
 Initial Flow Period \_\_\_\_\_ Minutes 30 (B) 56 P.S.I. to (C) 119 P.S.I.  
 Initial Closed In Period \_\_\_\_\_ Minutes 45 (D) 1066 P.S.I.  
 Final Flow Period \_\_\_\_\_ Minutes 60 (E) 121 P.S.I. to (F) 216 P.S.I.  
 Final Closed In Period \_\_\_\_\_ Minutes 90 (G) 956 P.S.I.  
 Final Hydrostatic Pressure \_\_\_\_\_ (H) 1820 P.S.I.



**DIAMOND TESTING, LLC**  
 P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
 (520) 653-7560 • (800) 542-7313  
 cross4dst2

Company Mollor Oil, Inc. Lease & Well No. Cross No. 4  
 Elevation 1571 KB Formation Viola Effective Pay      Ft. Ticket No. K058  
 Date 11-16-13 Sec. 31 Twp. 29S Range 8W County Kingman State Kansas  
 Test Approved By Max N. Lovely Diamond Representative Jason McLamore

Formation Test No. 2 Interval Tested from 4,440 ft. to 4,454 ft. Total Depth 4,454 ft.  
 Packer Depth 4,435 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.  
 Packer Depth 4,440 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.  
 Depth of Selective Zone Sat      ft.

Top Recorder Depth (Inside) 4,420 ft. Recorder Number 5513 Cap. 5,000 gal.  
 Bottom Recorder Depth (Outside) 4,421 ft. Recorder Number 5588 Cap. 6,000 gal.  
 Below Straddle Recorder Depth      ft. Recorder Number      Cap.      gal.

Drilling Contractor Hardt Drilling, LLC - Rig 1 Drill Collar Length 120 ft. I.D. 2 1/4  
 Mud Type Chemical Viscosity 45 Weight Pipe Length      ft. I.D.       
 Weight 9.3 Water Loss 9.6 cc. Drill Pipe Length 4,287 ft. I.D. 3 1/2  
 Chlorides 2,000 P.P.M. Test Tool Length 33 ft. Tool Size 3 1/2-IF  
 Jars: Make Sterling Serial Number 7 Anchor Length 14 ft. Size 4 1/2-FH  
 Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH

Blow: 1st Open: Weak blow increasing to 1 1/2 ins. No blow back during shut-in.  
 2nd Open: Weak blow increasing to 3 ins. No blow back during shut-in.

Recovered 15 ft. of very slightly oil cut mud = .073800 bbls. (Grind out: 2% oil, 98% mud)

Recovered      ft. of     

Recovered      ft. of     

Recovered      ft. of     

Recovered      ft. of     

Recovered      ft. of     

Remarks Tool Sample Grind Out: Mud w/oil scum

Time Set Packer(s) 2:05 A.M. Time Started off Bottom 5:50 A.M. Maximum Temperature 121°  
 Initial Hydrostatic Pressure      (A) 2137 P.S.I.  
 Initial Flow Period      Minutes 30 (B) 14 P.S.I. to (C) 19 P.S.I.  
 Initial Closed In Period      Minutes 45 (D) 359 P.S.I.  
 Final Flow Period      Minutes 60 (E) 28 P.S.I. to (F) 33 P.S.I.  
 Final Closed In Period      Minutes 90 (G) 1142 P.S.I.  
 Final Hydrostatic Pressure      (H) 2097 P.S.I.



**DIAMOND TESTING, LLC**  
 P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
 (620) 653-7550 - (800) 542-7313  
 cross4dst3

Company Molitor Oil, Inc. Lease & Well No. Cross No. 4  
 Elevation 1571 KB Formation Viola-Simpson Effective Pay      Ft. Ticket No. K057  
 Date 11-16-13 Sec. 31 Tap. 295 Range 8W County Kingman State Kansas  
 Test Approved By Max N. Lovely Diamond Representative Jason McLemore

Formation Test No. 3 Interval Tested from 4,455 ft. to 4,499 ft. Total Depth 4,499 ft.  
 Packer Depth 4,451 ft. Size 8 3/4 in. Packer Depth      ft. Size      in.  
 Packer Depth 4,455 ft. Size 8 3/4 in. Packer Depth      ft. Size      in.  
 Depth of Selective Zone Set      ft.

Top Recorder Depth (Inside) 4,437 ft. Recorder Number 5513 Cap. 5,000 ps  
 Bottom Recorder Depth (Outside) 4,438 ft. Recorder Number 5588 Cap. 5,000 ps  
 Below Straddle Recorder Depth      ft. Recorder Number      Cap.      ps

Drilling Contractor Hardt Drilling, LLC - Rig 1 Drill Collar Length 120 ft I.D. 2 1/4  
 Mud Type Chemical Viscosity 53 Weight Pipe Length      ft I.D.       
 Weight 8.2 Water Loss 9.0 cc Drill Pipe Length 4,303 ft I.D. 3 1/2  
 Chlorides 4,000 P.P.M. Test Tool Length 33 ft Tool Size 3 1/2-FH  
 Jars: Make Sterling Serial Number 7 Anchor Length 12' perf. w/31" drill pipe Size 4 1/2-FH  
 Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH

Blow: 1st Open: Good blow increasing. Off bottom of bucket in 7 mins. Blow back increasing to 1 1/8 ins.  
 2nd Open: Good blow increasing. Off bottom of bucket in 8 mins. Blow back increasing to 1 in.

Recovered 1,000 ft. of muddy water = 13.113800 bbls. (Grind out: 75% water; 25% mud) Chlorides: 85,000 Ppm PH: 7.0 RW: .30 @ 60'  
 Recovered      ft. of       
 Recovered      ft. of       
 Recovered      ft. of       
 Recovered      ft. of       
 Recovered      ft. of     

Remarks Tool Sample Grind Out: Muddy water w/oil scum

Time Set Packer(s) 10:57 P.M. Time Started off Bottom 2:42 A.M. Maximum Temperature 135°  
 Initial Hydrostatic Pressure.....(A) 2115 p.s.i.  
 Initial Flow Period.....Minutes 30 (B) 21 p.s.i. to (C) 212 p.s.i.  
 Initial Closed In Period.....Minutes 45 (D) 1626 p.s.i.  
 Final Flow Period.....Minutes 60 (E) 208 p.s.i. to (F) 452 p.s.i.  
 Final Closed In Period.....Minutes 90 (G) 1627 p.s.i.  
 Final Hydrostatic Pressure.....(H) 2059 p.s.i.



PAGE 1 of 1	CUST NO 1002808	INVOICE DATE 11/21/2013
<b>INVOICE NUMBER</b> <b>1718 - 91343369</b>		

Pratt (620) 672-1301  
 \* MOLITOR OIL INC  
 \*\*\*9517 SW 80TH AVE\*\*\*  
 SPIVEY  
 KS US 67142  
 ATTN: ACCOUNTS PAYABLE

LEASE NAME Cross 4  
 LOCATION  
 COUNTY Kingman  
 STATE KS  
 JOB DESCRIPTION Cement-New Well Casing/Pi  
 JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40664932	19905		Net - 30 days	12/21/2013

*For Service Dates: 11/18/2013 to 11/18/2013*

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 11/18/2013 to 11/18/2013</i>				
0040664932				
171806575A Cement-New Well Casing/Pi 11/18/2013				
Cement 4 1/2" Longstring				
AA2 Cement	300.00	EA	11.39	3,418.00 T
Cellulose	83.00	EA	2.48	206.76 T
Salt	1,635.00	EA	0.34	547.74 T
Cement Friction Reducer	156.00	EA	4.03	627.13 T
C-44	311.00	EA	3.45	1,073.13 T
Gilsonite	1,650.00	EA	0.45	740.70 T
Chemical	5.00	EA	23.45	117.25 T
*Unit Mileage Chg (PU, cars one way)	35.00	MI	2.85	99.75
Heavy Equipment Mileage	70.00	MI	4.69	328.31
*Proppant & Bulk Del. Chgs., per ton mil	544.00	EA	1.07	583.18
Depth Charge: 4001'-5000'	1.00	EA	1,688.44	1,688.44
Blending & Mixing Service Charge	330.00	BAG	0.94	309.85
Plug Container Util. Chg.	1.00	EA	167.50	167.50
*Service Supervisors, first 8 hrs on loc.	1.00	EA	117.25	117.25
*Latch Down Plug & Baffle, 4 1/2" (Blue)	1.00	EA	247.91	247.91
*Auto Fill Float Shoe 4 1/2" (Blue)	1.00	EA	231.11	231.11
*Turbolator, 4 1/2" (Blue)	7.00	EA	58.95	398.65

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	11,232.08
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	487.87
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	11,719.95
DALLAS, TX 75284-1903	PORT WORTH, TX 76102		





Pratt (620) 673-1201  
 MOLITOR OIL INC  
 4449517 SW 80TH AVE\*\*\*  
 SPIVEY  
 KS US 67142  
 ATTN: ACCOUNTS PAYABLE

LEASE NAME Cross 4  
 LOCATION  
 COUNTY Kingman  
 STATE KS  
 JOB DESCRIPTION Cement-New Well Casing/Pi  
 JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DOB DATE
40659918	20920		Net - 30 days	10/07/2013

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 11/06/2013 to 11/06/2013</i>				
171809259A Cement-New Well Casing/Pi 11/06/2013 Cement 8 5/8" Surface				
60140 P02	180.00	EA	8.04	1,447.20
Cellulose	45.00	EA	2.48	111.60
Calcium Chloride	485.00	EA	0.70	339.50
"Wooden Cmt Plug, 8 5/8"	1.00	EA	107.21	107.21
"Unit Mileage Chg (PU, cars one way)"	35.00	M	2.85	99.75
Heavy Equipment Mileage	70.00	M	4.89	342.30
"Proppant & Bulk Del. Chgs., per ton mil	271.00	EA	1.07	290.97
Depth Charge: 0-500'	1.00	EA	670.05	670.05
Blending & Mixing Service Charge	180.00	BAG	0.94	169.20
Plug Container Use, Chg.	1.00	EA	167.61	167.61
"Service Supervisor, first 8 hrs on loc.	1.00	EA	117.26	117.26

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	3,835.42
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	130.14
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	3,965.56
DALLAS, TX 75284-1903	PORT WORTH, TX 76102		