

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 329

Date	5-28-18	Sec.	19	Twp.	9	Range	20	County	ROCKS	State	KS	On Location		Finish	10:30pm
Location								Palco Ballpark 2nd 1/2 E into							
Lease	Turner			Well No.	7			Owner							
Contractor	Munin #24			To Quality Oilwell Cementing, Inc.											
Type Job	Surface			You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.											
Hole Size	12 1/4			T.D.	218			Charge To	American Oil Company						
Csg.	8 5/8			Depth	217			Street							
Tbg. Size				Depth				City				State			
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.	10'			Shoe Joint				Cement Amount Ordered 150 8 5/8 20 3 1/2 21 1/2							
Meas Line				Displace	133L										
EQUIPMENT								Common 120							
Pumptrk	20	No.	Cementer	Craig			Poz. Mix 30								
			Helper	Soren			Gel. 3								
Bulktrk		No.	Driver	Soren			Calcium 6								
			Driver	Soren											
Bulktrk	15	No.	Driver	Soren											
			Driver	Soren											
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt							
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
8 5/8 on bottom. Est. Circulation.								Handling 159							
Mix 150SK & Displace.								Mileage							
Cement Circulated!								FLOAT EQUIPMENT							
10 SK to pit.								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge Surface							
								Mileage 46							
Signature								Tax							
								Discount							
								Total Charge							

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 486

Date 6-3-18	Sec. 19	Twp. 9	Range 20	County Rooks	State KS	On Location	Finish 3:45 AM
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Location **Palco Ballpark 2W 1/2S E 1000**

Lease Turner	Well No. #7	Owner To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor Murfin 24		Charge To American Oil
Type Job Bottom Stage		
Hole Size 7 3/4	T.D. 3850	Street
Csg. 5 1/2	Depth 3852	
Tbg. Size	Depth	City
Tool DV	Depth 1740	State
Cement Left in Csg. 42.47	Shoe Joint 42.47	The above was done to satisfaction and supervision of owner agent or contractor.
Meas Line	Displace 91 3/4 bbl	Cement Amount Ordered @ 150 com 10% salt

EQUIPMENT

Pumptrk 20	No.	Cementer Helper Brett	Common 150
Bulktrk	No.	Driver David	Poz. Mix
Bulktrk 14	No.	Driver Doug	Gel.
JOB SERVICES & REMARKS			Calcium KCL 2 gal
			Hulls

Remarks:	Salt 13
Rat Hole	Flowseal
Mouse Hole	Kol-Seal 750#
Centralizers - 1,4,7,10,12,14,50 + 52	Mud CLR 48 - 500 gal
Baskets - 51 + 71	CFL-117 or CD110 CAF 38 - 20 bbl
DV or Port Collar Jr 51 @ 1740	Sand
	Handling 170
Ran 3852 of 5 1/2 casing + Est cir	Mileage 5 1/2
Mix 150 sx	FLOAT EQUIPMENT
Displaced 45 H₂O 45 Mud 1 3/4 H₂O	Guide Shoe
1sr 20 KCL	Centralizer - 8
Lift pressure @ 700 lbs	Baskets - 2
	AFU Inserts
Landed @ 1500 lbs	Float Shoe - 1
	Latch Down - 1
Open DV @ 1000 lbs	DV Tool - 1

Thanks

X Signature **Tom Bezen**

Pumptrk Charge	prod string	
Mileage 46		Bottom Stage
		Tax
		Discount
		Total Charge

Date 6-3-18	Sec. 19	Twp. 9	Range 20	County Roubidoux	State KS	On Location	Finish 5:00 AM
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Location Palco Ballpark 2W 1/2 S E into

Lease Turner	Well No. #7	Owner
Contractor Murfin 24		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Type Job Top Stage		
Hole Size 7 7/8	T.D. 3950	Charge To American Oil
Csg. 5 1/2	Depth 3852	Street
Tbg. Size	Depth	City State
Tool DV	Depth 1740	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered 385 80/20 QMDC 1/4 lb
Meas Line	Displace 41 1/2 bbl	

EQUIPMENT

Pumptrk 20	No.	Cementer		Common 385 80/20 QMDC
		Helper	Brett	Poz. Mix
Bulktrk	No.	Driver	David	Gel.
		Driver		Calcium
Bulktrk 19	No.	Driver	Doug	Hulls
		Driver		Salt

JOB SERVICES & REMARKS

Remarks:	
Rat Hole - 30 sk	Flowseal 100 #
Mouse Hole - 15 sk	Kol-Seal
Centralizers	Mud CLR 48
Baskets	CFL-117 or CD110 CAF 38
DV or Port Collar J: 51 @ 1740	Sand
	Handling 385
Plug Rat + Mouse hole	Mileage 56
Mix 340 sk QMDC	FLOAT EQUIPMENT
Displaced 41 1/2 bbl H ₂ O	Guide Shoe
	Centralizer - 9
Lift pressure @ 600 lbs	Baskets - 3
	AFU Inserts
Landed @ 1500 lbs	Float Shoe - 1
	Latch Down - 1
Cement circulated!!	DV - 1

Thanks

Pumptrk Charge prod string Top stage
Mileage 46

X Signature Tom Belem

Tax
Discount
Total Charge

Geological Report

Turner #7

940' FNL & 990' FWL

Sec. 19 T9s R20w

Rooks County, Kansas



American Oil, LLC.

General Data

Well Data: American Oil, LLC.
Turner #7
940' FNL & 990' FWL
Sec. 19 T9s R20w
Rooks County, Kansas
API # 15-163-24364-0000

Drilling Contractor: Murfin Drilling Co. Inc. Rig #24

Geologist: Jason T Alm

Spud Date: May 28, 2018

Completion Date: June 3, 2018

Elevation: 2238' Ground Level
2243' Kelly Bushing

Directions: Palco, KS. West 2 mi. to county line. North $\frac{3}{4}$ mi.
East into location.

Casing: 218' 8 5/8" surface casing
3849' 5 1/2" production casing

Samples: 10' wet and dry, 3200' to RTD

Drilling Time: 3150' to RTD

Electric Logs: Gemini Wireline "Casey Patterson"
CNL/CDL, DIL

Drillstem Tests: None

Problems: None

Remarks: None

Formation Tops

	American Oil, LLC. Turner #7 Sec. 19 T9s R20w 940' FNL & 990' FWL
Formation	
Anhydrite	1756' +467
Base	1789' +454
Topeka	3244' -1001
Heebner	3452' -1209
Toronto	3474' -1231
Lansing	3490' -1247
BKC	3706' -1463
Arbuckle	3771' -1528
LTD	3850' -1607
RTD	3850' -1607

Sample Zone Descriptions

- LKC “A” zone (3490’ -1247): Not Tested**
 Ls – Fine crystalline, oolitic packstone in part with poor to scattered fair oolitic porosity, light to fair spotted oil stain in porosity, slight show of free oil when broken, no odor, fair yellow fluorescents.
- LKC “F” zone (3569’, -1326): Not Tested**
 Ls – Sl. Dolo – oolitic in part with fair oolitic porosity, vuggy porosity in part with good vuggy porosity, light to fair oil stain and saturation, fair show of free oil, strong slightly sour odor, dull to fair yellow fluorescents, chalky.
- LKC “J” zone (3656’ -1413): Not Tested**
 Ls – Fine crystalline, oolitic packstone in part with fair to good oolitic porosity, light to fair oil stain with light spotted saturation, fair show of free oil when broken, light odor, slightly fossiliferous, light spotted yellow-green fluorescents.
- Arbuckle Rework (3766’, -1523): Not Tested**
 Dolo – Fine to medium rhombic crystalline, sucrosic in part with fair to good inter-crystalline and vuggy porosity, light to good oil stain with scattered good saturation, fair show of free oil, good odor, light spotted yellow fluorescents, very heavily pyritic, slightly mottled with green shale.

Arbuckle

(3771' -1528): Not Tested

Dolo – Fine to medium rhombic crystalline, with fair to good inter-crystalline and vuggy porosity, light to good oil stain with scattered good saturation, fair show of free oil, good odor, light spotted yellow fluorescents.

Structural Comparison

Formation	Turner #7	Turner #4	Turner #5
	Sec. 19 T9s R20w 940' FNL & 990' FWL	Sec. 19 T9s R20w SE NW NW	Sec. 19 T9s R20w NW NE NW
Anhydrite	1756' +487	NA	1765' +496
Base	1789' +454	NA	NA
Topeka	3244' -1001	NA	NA
Heebner	3452' -1209	447' -1208	3466' -1205
Toronto	3474' -1231	NA	3487' -1226
Lansing	3490' -1247	3486' -1247	3506' -1245
BKC	3706' -1463	NA	3723' -1462
Arbuckle	3771' -1528	3764' -1525	3771' -1510

Summary

The location for the Turner #7 was found via sub-surface study. The new well ran structurally as expected via the survey. No Drill Stem Tests were conducted. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the Turner #7 well.

Recommended Perforations

Primary:

Arbuckle 2nd Break	3781' – 3784'	Not Tested
Arbuckle Rework	3767' – 3770'	Not Tested
Arbuckle 1st Break	3771' – 3775'	Not Tested

Before Abandonment:

LKC J zone	3658' – 3662'	Not Tested
LKC F zone	3570' – 3575'	Not Tested

With Arbuckle. Shoot the rework section before the 1st break. If the rework section does not give up adequate volumes of fluid shoot the 1st break.

Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.