



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1317920  
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: \_\_\_\_\_

1317920

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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**DIAMOND TESTING, LLC**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(620) 653-7550 • (800) 542-7313  
WILSONA455DST1

Company Vess Oil Corporation Lease & Well No. Wilson "A" No. 455  
Elevation 1390 KB Formation Arbuckle Effective Pay      Ft. Ticket No. F436  
Date 8-21-16 Sec. 8 Twp. 25S Range 5E County Butler State Kansas  
Test Approved By Roger L. Martin Diamond Representative Jake Fahrenbruch

Formation Test No. 1 Interval Tested from 2,382 ft. to 2,401 ft. Total Depth 2,401 ft.  
Packer Depth 2,377 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.  
Packer Depth 2,382 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.  
Depth of Selective Zone Set      ft.

Top Recorder Depth (Inside) 2,384 ft. Recorder Number 5951 Cap. 5,000 psi.  
Bottom Recorder Depth (Outside) 2,385 ft. Recorder Number 5584 Cap. 5,000 psi.  
Below Straddle Recorder Depth      ft. Recorder Number      Cap.      psi.

Drilling Contractor C & G Drilling Company - Rig 2 Drill Collar Length 240 ft I.D. 2 1/4 in.  
Mud Type Chemical Viscosity 46 Weight Pipe Length      ft I.D.      in.  
Weight 9.0 Water Loss 7.8 cc. Drill Pipe Length 2,114 ft I.D. 3 1/2 in.  
Chlorides 500 P.P.M. Test Tool Length 28 ft Tool Size 3 1/2-IF in.  
Bars: Make Sterling Serial Number 5 Anchor Length 19 ft. Size 4 1/2-FH in.  
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.  
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Opened tool. Lost 10 ft. mud. 3 1/2 in. blow. Increased weight. Bled off. Blow increased to 1/2 in. No blow back during shut-in.  
2nd Open: No blow increasing to 1/2 in. by end. No blow back during shut-in.

Recovered 20 ft. of clean oil = .098400 bbls. (Grind out: 100%-oil) Gravity: 38 @ 60°  
Recovered 10 ft. of oily mud = .049200 bbls. (Grind out: 30%-oil; 70%-mud)  
Recovered 60 ft. of slightly oil cut mud = .295200 bbls. (Grind out: 5%-oil; 95%-mud)  
Recovered 90 ft. of TOTAL FLUID = .442800 bbls.

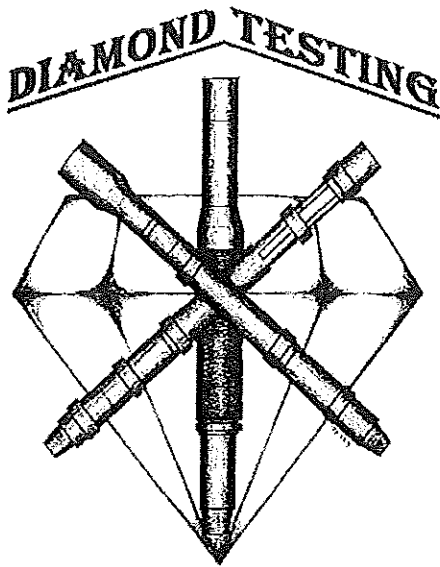
Recovered      ft. of       
Recovered      ft. of       
Remarks No gas in pipe.

Time Set Packer(s) 8:47 P.M. Time Started off Bottom 11:47 P.M. Maximum Temperature 106°  
Initial Hydrostatic Pressure.....(A) 1065 P.S.I.  
Initial Flow Period.....Minutes 30 (B) 44 P.S.I. to (C) 63 P.S.I.  
Initial Closed In Period.....Minutes 45 (D) 779 P.S.I.  
Final Flow Period.....Minutes 45 (E) 42 P.S.I. to (F) 73 P.S.I.  
Final Closed In Period.....Minutes 60 (G) 749 P.S.I.  
Final Hydrostatic Pressure.....(H) 1052 P.S.I.

# DIAMOND TESTING GENERAL REPORT

**Jake Fahrenbruch, Tester**

Cell: (620) 282-8977 / Office: (800) 542-7313



## TEST INFORMATION

Well Name	Wilson "A" #455
Company Name	Vess Oil Corp
Formation	DST #1, Arbuckle, 2382'-2401'
Test Type	Bottom-Hole w/J&J
Surface Location	Sec 8-25S-5E-Butler Co.-KS
KB Elevation (SL)	1390.000
Gauge Name	5951
Start Test Date	2016/08/21
Start Test Time	18:37:00
Final Test Date	2016/08/22
Final Test Time	02:33:00
Job Number	F436
Contact	Casey Coats
Site Contact	Roger Martin

## TEST RESULTS

Initial flow, opened tool and lost about ten feet of mud, increased weight on tool, bled off blow, blow increased to .5". NBB  
 Final flow, no blow, increasing to .5" by end of flow period. NBB

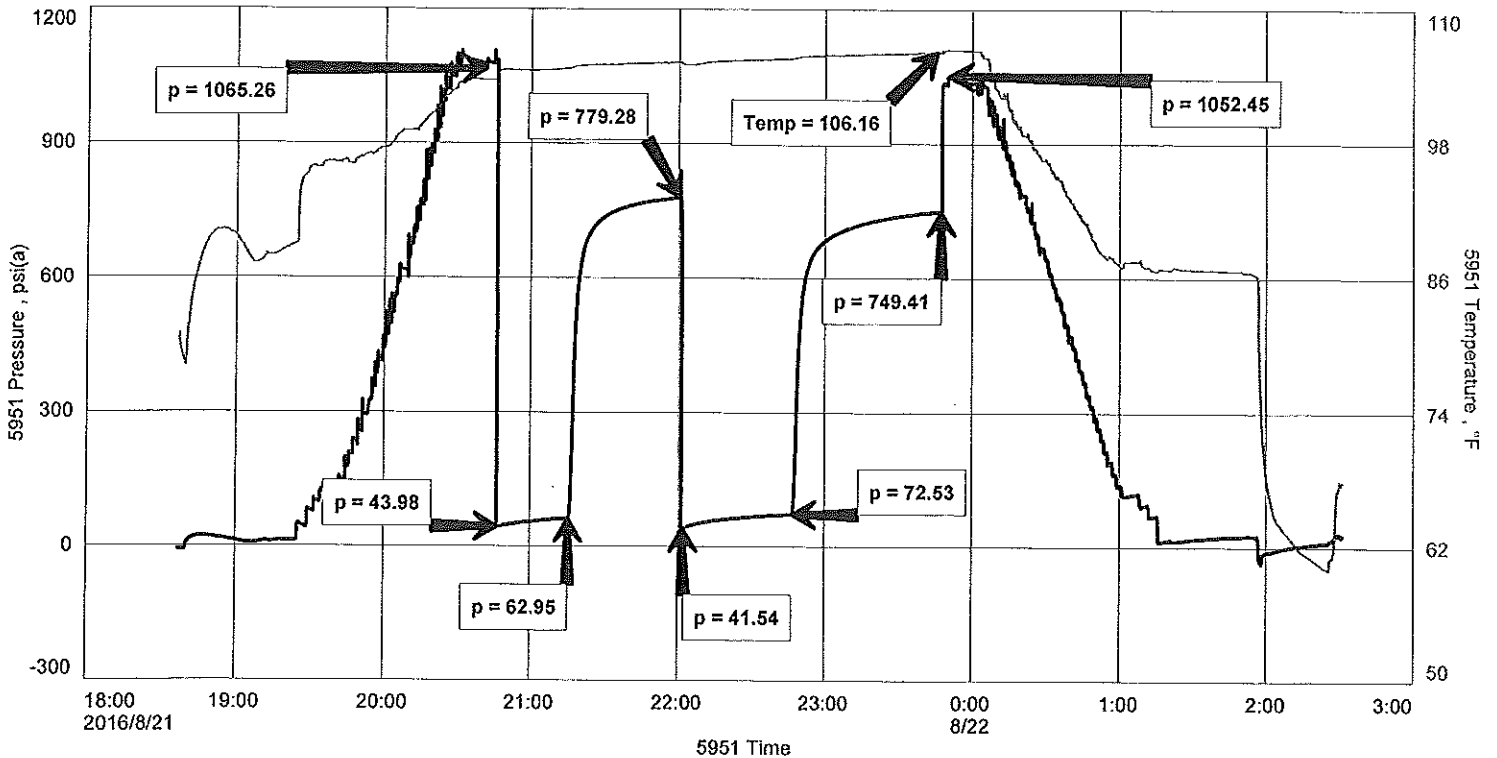
TOTAL FLUID RECOVERED: 90'

20'	Clean Oil	100% oil	Gravity: 38 @ 60 Deg F
10'	OM	30% oil, 70% mud	
60'	SOCM	5% oil, 95% mud	
-----	No GIP		

Vess Oil Corp  
 DST #1 Arbuckle 2382'-2401'  
 Start Test Date: 2016/08/21  
 Final Test Date: 2016/08/22

Wilson "A" #455  
 Formation: Arbuckle 2382'-2401'  
 Pool: Infield  
 Job Number: F436

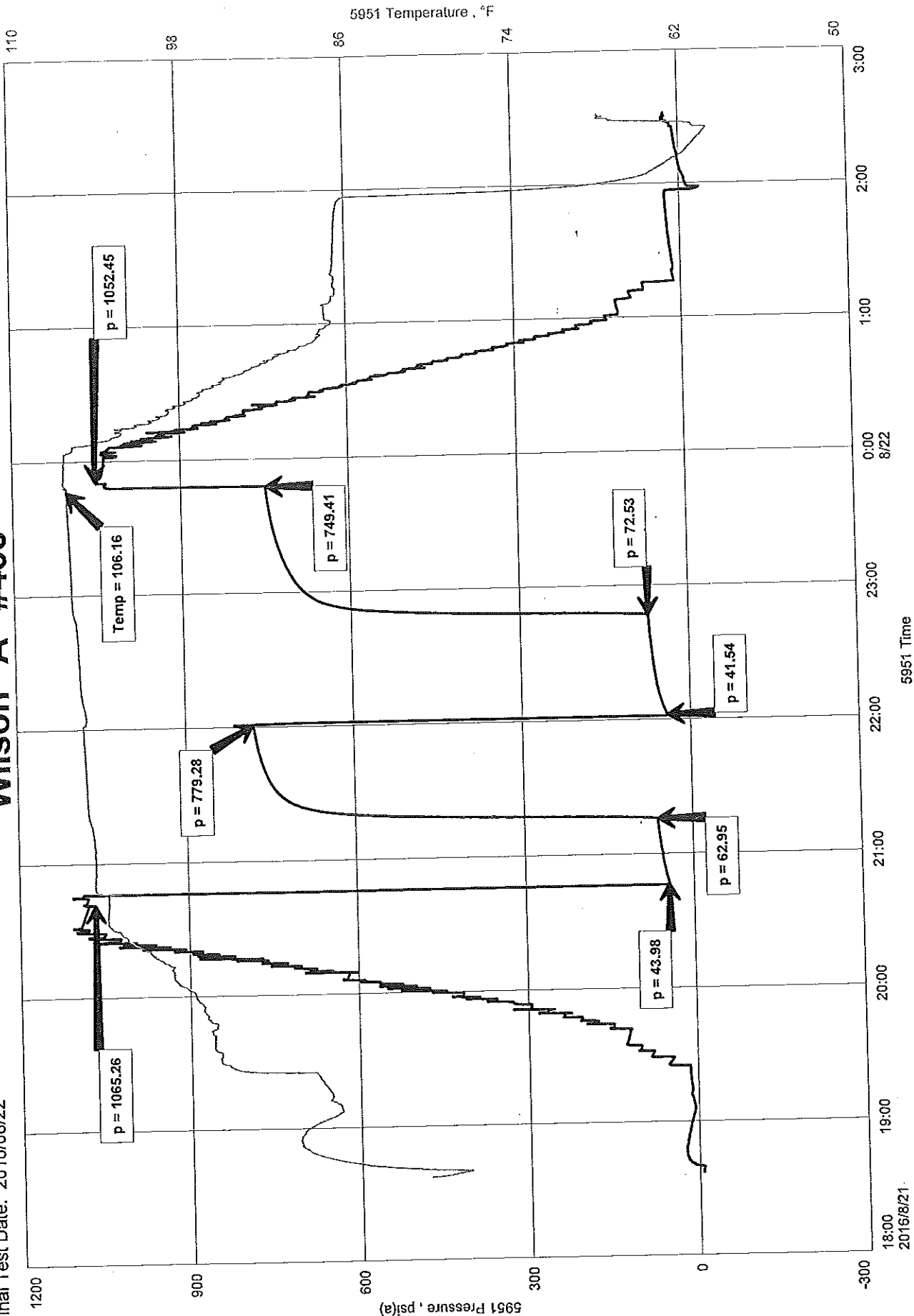
## Wilson "A" #455



Wilson "A" #455  
Formation: Arbuckle 2382'-2401'  
Pool: Infield  
Job Number: F436

Vess Oil Corp  
DST #1 Arbuckle 2382'-2401'  
Start Test Date: 2016/08/21  
Final Test Date: 2016/08/22

# Wilson "A" #455





**DIAMOND TESTING, LLC**  
 P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
 (620) 653-7550 • (800) 542-7313  
 WILSONA455DST2

Company Vess Oil Corporation Lease & Well No. Wilson "A" No. 455  
 Elevation 1390 KB Formation Arbuckle Effective Pay      Ft. Ticket No. F437  
 Date 8-22-16 Sec. 8 Twp. 25S Range 5E County Butler State Kansas  
 Test Approved By Roger L. Martin Diamond Representative Jake Fahrenbruch

Formation Test No. 2 Interval Tested from 2,392 ft. to 2,421 ft. Total Depth 2,421 ft  
 Packer Depth 2,387 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.  
 Packer Depth 2,392 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.  
 Depth of Selective Zone Set      ft.

Top Recorder Depth (Inside) 2,393 ft. Recorder Number 5951 Cap. 5,000 psi.  
 Bottom Recorder Depth (Outside) 2,394 ft. Recorder Number 5584 Cap. 5,000 psi.  
 Below Straddle Recorder Depth      ft. Recorder Number      Cap.      psi.

Drilling Contractor C & G Drilling Company - Rig 2 Drill Collar Length 240 ft I.D. 2 1/4 in.  
 Mud Type Chemical Viscosity 43 Weight Pipe Length      ft I.D.      in.  
 Weight 9.0 Water Loss 7.6 cc. Drill Pipe Length 2,124 ft I.D. 3 1/2 in.  
 Chlorides 500 P.P.M. Test Tool Length 28 ft Tool Size 3 1/2-IF in.  
 Lars: Make Sterling Serial Number 5 Anchor Length 29 ft. Size 4 1/2-FH in.  
 Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Blow increasing to 9 ins. No blow back during shut-in.  
 2nd Open: Blow increasing to 11 ins. Surface blow back during shut-in.

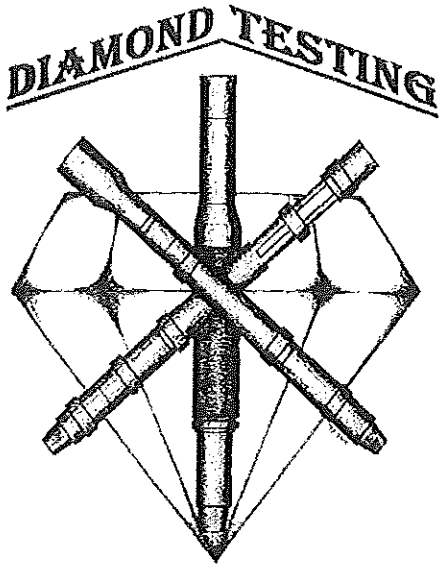
Recovered 20 ft. of free oil = .284600 bbls. (Grind out: 100%-oil) Gravity: 38 @ 60°  
 Recovered 120 ft. of water cut, oily mud = .590400 bbls. (Grind out: 32%-oil; 18%-water; 50%-mud)  
 Recovered 120 ft. of gas cut, oily, watery mud = .590400 bbls. (Grind out: 15%-gas; 25%-oil; 30%-water; 30%-mud)  
 Recovered 260 ft. of TOTAL FLUID = 1.465400 bbls. Chlorides: 18,500 Ppm PH: 8.0 RW: .32 @ 80°  
 Recovered      ft. of       
 Recovered      ft. of       
 Remarks No gas in pipe.

Time Set Packer(s) 12:42 P.M. Time Started off Bottom 3:42 A.M. Maximum Temperature 106°  
 Initial Hydrostatic Pressure.....(A) 1050 P.S.I.  
 Initial Flow Period.....Minutes 30 (B) 14 P.S.I. to (C) 98 P.S.I.  
 Initial Closed In Period.....Minutes 45 (D) 757 P.S.I.  
 Final Flow Period.....Minutes 45 (E) 62 P.S.I. to (F) 143 P.S.I.  
 Final Closed In Period.....Minutes 60 (G) 728 P.S.I.  
 Final Hydrostatic Pressure.....(H) 1030 P.S.I.

# DIAMOND TESTING GENERAL REPORT

**Jake Fahrenbruch, Tester**

Cell: (620) 282-8977 / Office: (800) 542-7313



## TEST INFORMATION

Well Name	Wilson "A" #455
Company Name	Vess Oil Corp
Formation	DST #2, Arbuckle, 2392'-2421'
Test Type	Bottom-Hole w/J&Jnt
Surface Location	Sec 8-25S-5E-Butler Co.-KS
KB Elevation (SL)	1390.000
Gauge Name	5951
Start Test Date	2016/08/22
Start Test Time	10:53:00
Final Test Date	2016/08/22
Final Test Time	18:47:00
Job Number	F437
Contact	Casey Coats
Site Contact	Roger Martin

## TEST RESULTS

Initial flow, blow increased to 9" in bucket. No blowback.  
 Final flow, blow increased to 11" in bucket. Surface blowback that died off.

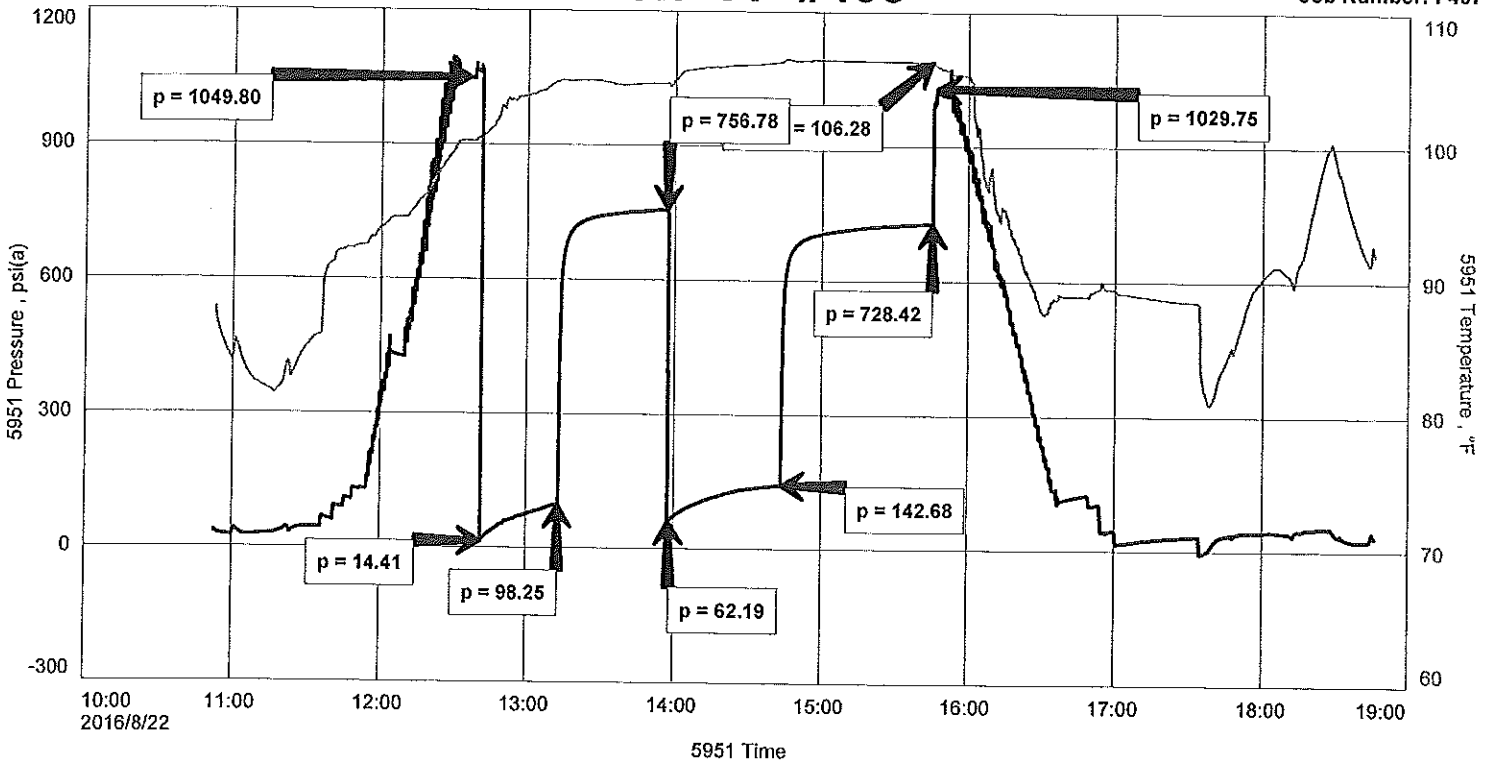
### TOTAL FLUID RECOVERED: 260'

20'	Free Oil	100% oil	Gravity: 38 @ 60 Deg F
120'	WC OM	32% oil, 18% wtr, 50% mud	
120'	GC O WM	15% gas, 25% oil, 30% wtr, 30% mud	
----	No GIP		
----	Chlorides: 18,500 ppm	----	PH: 8.0
----		----	RW: .32 ohm @ 80 Deg F

Vess Oil Corp  
 DST #2 Arbuckle 2392'-2421'  
 Start Test Date: 2016/08/22  
 Final Test Date: 2016/08/22

Wilson "A" #455  
 Formation: Arbuckle 2392'-2421'  
 Pool: Infield  
 Job Number: F437

## Wilson "A" #455

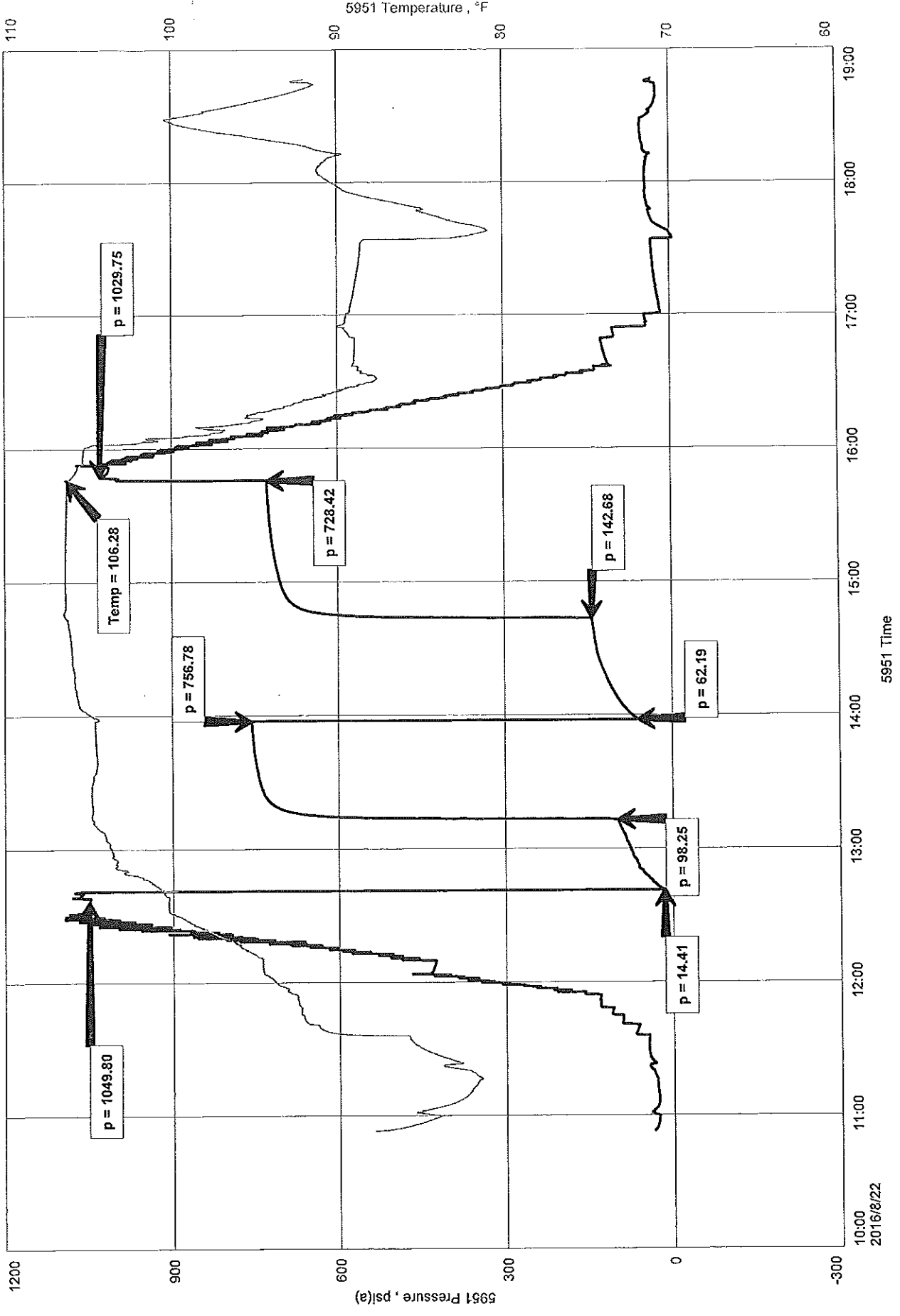




Wilson "A" #455  
Formation: Arbuckle 2392'-2421'  
Pool: Infield  
Job Number: F437

Vess Oil Corp  
DST #2 Arbuckle 2392'-2421'  
Start Test Date: 2016/08/22  
Final Test Date: 2016/08/22

# Wilson "A" #455





**CONSOLIDATED**  
Oil Well Services, LLC

6506  
Field let det  
All

Invoice # 809411

TICKET NUMBER 51386

LOCATION 180

FOREMAN Jacob Storm

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**

**CEMENT**

Api IS-015-24065-00-00

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-18-16	8511	wilson A HSS	2	2S	SE	Butler
CUSTOMER <u>Vess oil</u>						
MAILING ADDRESS <u>1700 waterfront parkway Bld 500</u>						
CITY <u>Wichita</u>						
STATE <u>KS</u>						
ZIP CODE <u>67206</u>						
TRUCK #	DRIVER	TRUCK #	DRIVER			
<u>760</u>	<u>Chris</u>					
<u>667</u>	<u>mark</u>					
<u>507</u>	<u>Jacob</u>					

JOB TYPE Surface B HOLE SIZE 12 1/4 HOLE DEPTH 273 CASING SIZE & WEIGHT 8 5/8  
 CASING DEPTH 262 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 15 lb SLURRY VOL 31.53 bbl WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 16 ft  
 DISPLACEMENT 16.5 DISPLACEMENT PSI 300 MIX PSI 200 RATE 4 bpm

REMARKS: Safety meeting, Break circulation, pump 10 bbl water mix 150 lbs class A 3 1/2 cc 1/2 lb poly, displaced 16.5 bbl circulating cement to surface shut in.

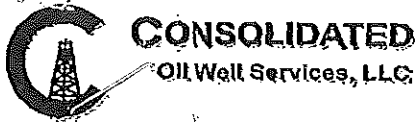
ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0430	1	PUMP CHARGE	1500.00	1500.00
CE0002	7	MILEAGE	7.15	N/C
CE0711	1	min bulk delivery	660.00	660.00
CCS800A	150	class A	20.00	3000.00
CCS325	350	calcium chloride	1.00	350.00
CC6075	75	poly-Floker	2.00	150.00
			Subtotal	5160.00
			4.5% -	2547.00
			total	3113.00
			TAX 129.94	
			SALES TAX	129.94
			ESTIMATED TOTAL	3242.94

SCANNED

Payln 3737

AUTHORIZATION Will TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



6514  
Field Net dec  
6417

TICKET NUMBER 51387  
LOCATION 180  
FOREMAN Jacob Storm

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT  
CEMENT**

**Invoice # 808420**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
8-23-16	8511	Wilson A	8	25	SE	Butler	
CUSTOMER Vess oil							
MAILING ADDRESS 1700 Waterfront Parkway, Bldg 500							
CITY Wichita	STATE KS	ZIP CODE 67206					
TRUCK #		DRIVER		TRUCK #		DRIVER	
760		Chris					
611		Jud					
507		Jacob					

JOB TYPE long string B HOLE SIZE 7 7/8 HOLE DEPTH 2421 CASING SIZE & WEIGHT 5 1/2  
 CASING DEPTH 2390 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 15 lb SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 41.95 shoe  
 DISPLACEMENT 5 1/2 B DISPLACEMENT PSI 500 MIX PSI 200 RATE 4.8 bpm

REMARKS: Safety Meeting. Run pipe to 2390, circulate hole for 30 min  
drop ball open packer shoe circulate 20 min, pump 500 gal mud flush  
10 bbl water, mix 150 sks thick set 5/8 Kol-seal, displaced with bbl  
landing plug cut 1000 psi, plug Ret hole with 25 sks thick set.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0451	1	PUMP CHARGE	1900.00	1900.00
CE0002	2	MILEAGE	7.15	N/A
CE0711	1	min bulk delivery	660.00	660.00
CC5860	175	thick set	25.00	4375.00
CL6077	900	Kol-seal	.50	450.00
CP8254	1	5 1/2 hatch down	400.00	400.00
CP8727	1	3 1/2 packer shoe	2355.00	2355.00
CP8554	6	5 1/2 centralizers	78.00	468.00
CP8551	1	5 1/2 Recip Basket	360.00	360.00
CC6125	500	mud flush	.65	325.00
			Subtotal:	11273.00
			15%	1690.95
			Total:	12963.95
<b>PAID</b>				
			SALES TAX	324.21
			ESTIMATED TOTAL	13288.16

Ravin 3787

AUTHORIZATION

boony boots

TITLE

DATE

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

ROGER L. MARTIN

INDEPENDENT PETROLEUM GEOLOGIST 316-250-6970

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

Table with company, lease, field, location, section, county information and elevations, measurements, API number.

Table with contractor, casing, production, and electrical surveys information.

Table with formation tops, logs, samples, and chronostratigraphy data.

REMARKS section containing detailed well logs, sample descriptions, and geological notes.

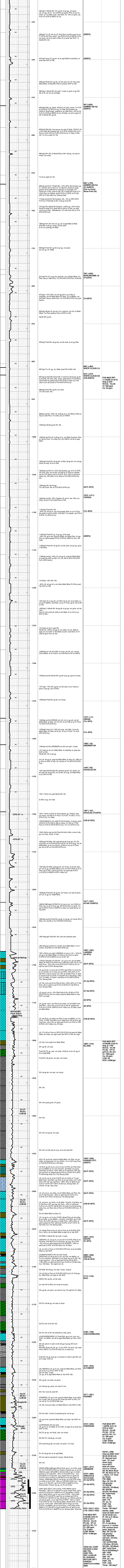


Table with well information including well name, operator, and completion status.

**ATTACHMENT TO ACO-1**

WILSON A-455 – API #15-015-24065-0000  
 990'FSL, 2260'FWL  
 Sec. 8-25S-05E  
 Butler County, KS

	<b>Geo Tops</b>	<b>Log Tops</b>
	<b>Wilson A-455</b>	<b>Wilson A-455</b>
Admire 550	568 +822	NONE
Admire 650	665 +725	664 +726
Burlingame	785 +605	784 +606
White Cloud Lm	908 +482	908 +482
White Cloud Sd	918 +472	918 +472
Topeka	1079 +311	1072 +318
Oread	1373 +17	1373 +17
Heebner	1413 -18	1410 -20
Douglas	1440 -50	1441 -51
Douglas Snd		1503 -113
Iatan	1617 -227	1619 -229
Lansing	1682 -292	1682 -292
Lansing Base	1806 -416	1803 -413
Kansas City	1958 -568	1959 -569
Stark	2060 -670	2061 -671
B/KC	2114 -724	2115 -725
Checkerboard	2188 -798	2189 -799
Altamont	2233 -843	2235 -845
Pawnee	2271 -881	2272 -882
Cherokee	2310 -920	2312 -922
Ardmore Lm	2367 -987	2368 -978
Arbuckle	2376 -996	2378 -988
PTD	2421 -1031	2422 -1032

DST #1           2382-2401  
 Zone:            ARBUCKLE (best:2396-2401)  
 Times:           30-45-45-60  
 1<sup>st</sup> open:        Built to .5" in 30 min  
                   No BB  
 2<sup>nd</sup> open         Built to .5" in 45 min  
                   No BB  
 Rec.: 90': 20' CO(38 grav), 10' HOcm(O-30, M-70), 60' SOcm(O-5, M-95)  
 IHP: 1065           FHP: 1052  
 IFP: 44-63           FFP: 42-73  
 ISIP: 779            FSIP: 749            TEMP 106

DST #2 2392-2421  
Zone: ARBUCKLE (best: 2417-21)  
Times: 30-45-45-60  
1<sup>st</sup> open: Built to 5" in 18 min, up to 9" at 30 min  
No BB  
2<sup>nd</sup> open Built to 11" in 45 min  
Sli BB

Rec.: 20' CO(38 gravity), 120'(32-O, 18-W, 50-M), 120'(25-O, 30-M, 30-W, 15-G)  
18500 chlorides

IHP: 1050	FHP: 1030	
IFP: 14-98	FFP: 62-143	
ISIP: 757	FSIP: 729	TEMP 106