



KANSAS CORPORATION COMMISSION 1101738  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5030  
Name: Vess Oil Corporation  
Address 1: 1700 WATERFRONT PKWY BLDG 500  
Address 2: \_\_\_\_\_  
City: WICHITA State: KS Zip: 67206 + 6619  
Contact Person: Patrick T. Canaday  
Phone: (316) 682-1537  
CONTRACTOR: License # 6039  
Name: L. D. Drilling, Inc.  
Wellsite Geologist: Roger Martin  
Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well     Re-Entry     Workover
- Oil     WSW     SWD     SLOW
- 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

Conv. to GSW

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

Commingled    Permit #: \_\_\_\_\_

Dual Completion    Permit #: \_\_\_\_\_

SWD    Permit #: \_\_\_\_\_

ENHR    Permit #: \_\_\_\_\_

GSW    Permit #: \_\_\_\_\_

<u>08/01/2012</u>	<u>08/10/2012</u>	<u>12/04/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-163-24055-00-00

Spot Description: 390'N of SE SE SE

SW\_NE\_SE\_SE Sec. 12 Twp. 10 S. R. 17  East  West

753 Feet from  North /  South Line of Section

438 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE     NW     SE     SW

County: Rooks

Lease Name: Younger B Well #: 1

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

Producing Formation: LKC

Elevation: Ground: 1957 Kelly Bushing: 1962

Total Depth: 3862 Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: 215 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: 1179 Feet

If Alternate II completion, cement circulated from: 1179  
feet depth to: 0 w/ 200 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 1600 ppm Fluid volume: 400 bbls

Dewatering method used: Evaporated

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

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: Deanna Garris Date: 12/12/2012



1101738

Operator Name: Vess Oil Corporation Lease Name: Younger B Well #: 1  
 Sec. 12 Twp. 10 S. R. 17  East  West County: Rooks

**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 complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:  Dual Induction Log Micro Log Dual Compensated Porosity Log	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample  Name Top Datum see attached
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CASING RECORD <input checked="" 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	12.25	8.625	24	216	common	160	3% cc, 2% gel
production	7.875	5.5	15.5	3590	ASC	190	

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 checked="" type="checkbox"/> Plug Off Zone	-3508	common	75	common

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
	3502-08'	500 gel HCL	

TUBING RECORD: Size: <u>2.875</u> Set At: <u>3565</u> Packer At: <u>3565</u> Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
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 (Explain) _____
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 checked="" 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> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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**ROGER L. MARTIN**  
 GEOPHYSICIST  
 COMPANY NAME

PROJECT NO.	DATE	TIME	LOCATION
DESCRIPTION	WELL NO.	DEPTH	LOG NO.
CORRECTION DATA	REMARKS		

DEPTH (ft)	LOG	DESCRIPTION
0		Surface
10		
20		
30		
40		
50		
60		
70		
80		
90		
100		
110		
120		
130		
140		
150		
160		
170		
180		
190		
200		
210		
220		
230		
240		
250		
260		
270		
280		
290		
300		
310		
320		
330		
340		
350		
360		
370		
380		
390		
400		
410		
420		
430		
440		
450		
460		
470		
480		
490		
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510		
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710		
720		
730		
740		
750		
760		
770		
780		
790		
800		
810		
820		
830		
840		
850		
860		
870		
880		
890		
900		
910		
920		
930		
940		
950		
960		
970		
980		
990		
1000		



ATTACHMENT TO ACO-1

Younger B #1 – API 15-163-24055-00-00

**S2 NE SE SE**

Sec 12-10S-17W

Rooks County, KS

	<u>SAMPLE TOPS</u>	<u>LOG TOPS</u>
ANHYDRITE TOP	1173 (+789)	1165 +797
ANHYDRITE BASE	1205 (+757)	1201 +761
TOPEKA	2863 (-901)	2861 -899
OREAD	3030 (-1068)	3028 -1066
PLATTS Porosity	3050 (-1088)	3049 -1087
HEEBNER	3088 (-1126)	3086 -1124
TORONTO	3112 (-1150)	3105 -1143
LANSING	3130 (-1168)	3128 -1166
Muncie CREEK	3260 (-1298)	3258 -1296
STARK	3328 (-3328)	3326 -1364
BKC	3373 (-1411)	3371 -1409
CONGLOMERATE		
ARBUCKLE	3482 (-1520)	3482 -1520
RTD	3608 (-1646)	
LTD	3607 (-1645)	
GRANITE WASH	3820 (-1858)	
RTD	3862 (-1900)	

**DST #1**      3084-3228      **Zone: Tor – LKC F**  
**Times:**      30-45-45-60  
**1<sup>st</sup> open:**    Wk ½" blow inc to btm bkt – 10.25 min – No BB  
**2<sup>nd</sup> open:**    Weak surf blow inc to btm bkt-16.75 min – No BB  
**Rec.:**        58' Slit OCM (1% oil, 98% Mud); 189' G&OWM (5% Gas, 15% Oil, 31% Wtr, 49% Mud); 189' G&OCMW (8% Gas, 11% Oil, 45% Wtr, 36% Mud); 436' TF  
                   Tool – 2% Gas, 4% oil, 69% Wtr, 36% Mud (Cl – 41,000 ppm)  
**IHP:**        1512            **FHP: 1513**  
**IFP:**        94-191        **FFP: 197-282**  
**ISIP:**       603            **FSIP: 598**            **TEMP: 103F**

**DST #2**      3228-40'      **Zone: LKC G**  
**Times:**      30-45-45-60  
**1<sup>st</sup> open:**    Wk 1/8" blow, in to bob in 24.74 min – No BB  
**2<sup>nd</sup> open:**    Wl Surf blow, in to bob in 29.75 min – No BB

**Rec.:** 8' Slit OCMW (2% oil, 79% wtr, 19% mud); 126' MW (83% wtr, 17% mud – scum oil); 126' SW(100% SW). TF – 260'.  
Tool – 100% wtr – oil specks

**IHP:** 1515            **FHP:** 1515  
**IFP:** 17-69            **FFP:** 70-141  
**ISIP:** 610            **FSIP:** 608            **TEMP:** 103F

**DST #3**            3253-3400'            **Zone:** LKC-H - Pleasanton  
**Times:** 30-45-45-60  
**1<sup>st</sup> open:** Wk blow 1/8", inc to 1.25" in bkt, No BB  
**2<sup>nd</sup> open:** Wk surf blow, died – 10 min, No BB  
**Rec.:** 25' Drilling Mud (100% mud)  
**IHP:** 1625            **FHP:** 1623  
**IFP:** 89-99            **FFP:** 94-99  
**ISIP:** 725            **FSIP:** 650            **TEMP:** 103F

**DST #4**            3367-3507'            **Zone:** Arbuckle  
**Times:** 30-45-45-60  
**1<sup>st</sup> open:** Wk 1/2" blow, inc to BOB in 22 min, No BB  
**2<sup>nd</sup> open:** Wk surf blow, in to BOB in 33.25 min, No BB  
**Rec.:** 98' OCWM (2% oil, 4% wtr, 94% mud); 189' G&OCWM (2% gas, 7% oil, 37% wtr, 54% mud). 287' TF. CI – 14,000.  
Tool – 8% gas, 10% oil, 30% wtr, 52% mud  
**IHP:** 1707            **FHP:** 1671  
**IFP:** 87-136            **FFP:** 144-208  
**ISIP:** 1060            **FSIP:** 1064            **TEMP:** 105F

# ALLIED OIL & GAS SERVICES, LLC 056512

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:

Russell KS

DATE <u>8-19-12</u>	SEC. <u>12</u>	TWP. <u>10</u>	RANGE <u>17</u>	CALLED OUT	ON LOCATION	JOB START <u>11:30 AM</u>	JOB FINISH <u>12:00 PM</u>
LEASE <u>Youngs R</u> WELL # <u>1</u>				LOCATION <u>Cade II Ks IE 1/2 S Winta</u>		COUNTY <u>Rooks</u>	STATE <u>KS</u>
OLD OR (NEW) (Circle one)							

CONTRACTOR Smalley Hill #1

TYPE OF JOB Part collar

HOLE SIZE \_\_\_\_\_ T.D. \_\_\_\_\_

CASING SIZE 5 1/2 15.5" DEPTH 3590.28

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL part collar DEPTH 1179

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MBAS. LINE \_\_\_\_\_ SHOES JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS. \_\_\_\_\_

DISPLACEMENT \_\_\_\_\_ 5 1/2 bbl

OWNER \_\_\_\_\_

CEMENT AMOUNT ORDERED 300 60/40 4% gal 1/4" Flt

*used 200*

COMMON	<u>120</u>	@	<u>16.25</u>	<u>1950.00</u>
POZMIX	<u>80</u>	@	<u>8.5</u>	<u>680.00</u>
GBL	<u>7</u>	@	<u>21.25</u>	<u>148.75</u>
CHLORIDE		@		
ASC		@		
FLU SEAL	<u>2.50</u>	@	<u>2.76</u>	<u>135.00</u>
HANDLING	<u>321.67</u>	@	<u>2.10</u>	<u>675.50</u>
MILBAGE	<u>456.87</u>	@	<u>2.31</u>	<u>1075.66</u>
TOTAL				<u>4527.91</u>

EQUIPMENT

PUMP TRUCK CEMENTER Robert Y Bob S.

# 417 HELPER Woody O.

BULK TRUCK

# 473 DRIVER Walter K.

BULK TRUCK DRIVER

REMARKS:

run to 1179 and set to 1200' open for cement received circulating mixed 40MIL (200 lbs 60/40 4% gal 1/4") closed per trip to 1200' run size washed clean (2.1 bbl)

cement circulated to surface

Thank you!!

CHARGE TO: Voss Oil Corp

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB	<u>1179</u>		
PUMP TRUCK CHARGE	<u>1050.00</u>		
EXTRA FOOTAGE		@	
MILBAGE <u>34 HVMT</u>	@	<u>7.00</u>	<u>238.00</u>
MANIFOLD		@	
<u>34 HVMT</u>	@	<u>4.00</u>	<u>136.00</u>
TOTAL <u>1424.00</u>			

PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		
TOTAL _____			

To: Allied Oil & Gas Services, LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME \_\_\_\_\_

SIGNATURE [Signature]

SALES TAX (If Any) 189.56

TOTAL CHARGES 6086.91

DISCOUNT 2450 1651.68 IF PAID IN 30 DAYS

Net 1435.23 8-30

before tax

# ALLIED CEMENTING CO., LLC. 034661

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
RUSSELL

DATE <u>10-8-17</u>	SEC <u>12</u>	TWP <u>10</u>	RANGE <u>17</u>	CALLED OUT	ON LOCATION	JOB START <u>2 PM</u>	JOB FINISH <u>2:30 PM</u>
YOUNGER LEASE	WELL # <u>B#1</u>	LOCATION <u>codell KS 1E-22S-W12E</u>			COUNTY <u>Reddick</u>	STATE <u>KS</u>	

OLD OR NEW (Circle one)

CONTRACTOR W.O. OWNER \_\_\_\_\_

TYPE OF JOB Squeeze

HOLE SIZE \_\_\_\_\_ TD \_\_\_\_\_

CASING SIZE 5 1/2 DEPTH 3590

TUBING SIZE 2 7/8 DEPTH \_\_\_\_\_

DRILL PIPE DEPTH \_\_\_\_\_

TOOL DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOUL JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS. 3502 TO 3508

DISPLACEMENT \_\_\_\_\_

CEMENT AMOUNT ORDERED 150 SK CLASS A  
7# PL-10

COMMON	<u>75 @ 17.9</u>	<u>1342.50</u>
POZMIX	@	
OBL	@	
CHLORIDE	@	
ASC	@	
<u>PL 10</u>	<u>7# @ 16.6</u>	<u>116.20</u>
	@	
	@	
	@	
	@	
	@	
HANDLING <u>150.19</u>	@ <u>2.48</u>	<u>372.42</u>
MILEAGE <u>239.819</u>	<u>7.26 x 2.6</u>	<u>623.53</u>
TOTAL		<u>2454.7</u>

EQUIPMENT	
PUMP TRUCK # <u>409</u>	CEMENTER <u>Bob S.</u> 1 HELPER <u>TONY</u> 1
BULK TRUCK # <u>410</u>	DRIVER <u>Kevin</u> 3
BULK TRUCK # _____	DRIVER _____

REMARKS:

Pumped 75 SK Cement  
Cement in formation  
5.42 bbl = 25.96 SK  
work over valve 1000ft  
THANK YOU!

SERVICE

DEPTH OF JOB	<u>3520 ft</u>	
PUMP TRUCK CHARGE	<u>2600.47</u>	
EXTRA FOOTAGE	@	
MILEAGE <u>Harry 34</u>	@ <u>7.17</u>	<u>241.8</u>
MANIFOLD <u>Squeeze</u>	@ <u>250</u>	<u>85</u>
<u>LOV</u>	@ <u>4.4</u>	<u>149.6</u>
	@	
TOTAL		<u>3011.87</u>

CHARGE TO: VESS OIL

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

TOTAL 0

To Allied Cementing Co., LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) 344.39

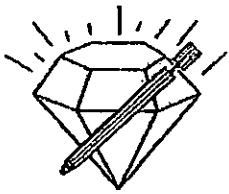
TOTAL CHARGES 5466.57

DISCOUNT 1639.97 IF PAID IN 30 DAYS

Net 3826.60 BS 10-8  
before tax

PRINTED NAME \_\_\_\_\_

SIGNATURE [Signature]



# DIAMOND TESTING

P.O. Box 157

Page 1 of 8 Pages

**HOISINGTON, KANSAS 67544**

(620) 653-7550 • (800) 542-7313

Company Vess Oil Corporation Lease & Well No. Younger "B" No. 1  
 Elevation 1962 KB Formation Toronto/Lansing "A"- "F" Effective Pay          Ft. Ticket No. 2875  
 Date 8-6-12 Sec. 12 Twp. 10S Range 17W County          Rooks State Kansas  
 Test Approved By Roger L. Martin Diamond Representative Roger D. Friedly

Formation Test No. 1 Interval Tested from 3,084 ft. to 3,228 ft. Total Depth 3,228 ft  
 Packer Depth 3,079 ft. Size 6 3/4 in. Packer Depth          ft. Size          in.  
 Packer Depth 3,084 ft. Size 6 3/4 in. Packer Depth          ft. Size          in.  
 Depth of Selective Zone Set          ft.

Top Recorder Depth (Inside) 3,216 ft. Recorder Number 0062 Cap. 5,000 psi.  
 Bottom Recorder Depth (Outside) 3,225 ft. Recorder Number 11033 Cap. 5,150 psi.  
 Below Straddle Recorder Depth          ft. Recorder Number          Cap.          psi.

Drilling Contractor L. D. Drilling, Inc. - Rig 1 Drill Collar Length          ft I.D.          in.  
 Mud Type Chemical Viscosity 48 Weight Pipe Length          ft I.D.          in.  
 Weight 8.8 Water Loss 6.4 cc. Drill Pipe Length 3,057 ft I.D. 3 1/4 in.  
 Chlorides 1,500 P.P.M. Test Tool Length 27 ft Tool Size 3 1/2-IF in.  
 Jars: Make Sterling Serial Number 5 Anchor Length 17' perf. w/127' drill pipe 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: Weak, 1/2 in. blow increasing. Off bottom of bucket in 10 1/4 mins. No blow back during shut-in.

2nd Open: Weak, surface blow increasing. Off bottom of bucket in 16 3/4 mins. No blow back during shut-in.

Recovered 58 ft. of slightly oil cut mud = .595080 bbls. (Grind out: 1%-oil; 99%-mud)  
 Recovered 189 ft. of gas & oil cut watery mud = 1.939140 bbls. (Grind out: 5%-gas; 15%-oil; 31%-water; 49%-mud)  
 Recovered 189 ft. of gas & oil cut muddy water = 1.939140 bbls. (Grind out: 8%-gas; 11%-oil; 45%-water; 36%-mud) Chlorides: 41,000 Ppm PH: 7.0 RW: .16 @ 69°  
 Recovered 436 ft. of TOTAL FLUID = 4.473360 bbls.  
 Recovered          ft. of           
 Recovered          ft. of           
 Remarks Tool Sample Grind Out: 2%-gas; 4%-oil; 69%-water; 25%-mud

Time Set Packer(s) 2:07 A.M. Time Started off Bottom 5:07 A.M. Maximum Temperature 103°  
 Initial Hydrostatic Pressure.....(A) 1512 P.S.I.  
 Initial Flow Period.....Minutes 30 (B) 94 P.S.I. to (C) 191 P.S.I.  
 Initial Closed In Period.....Minutes 45 (D) 603 P.S.I.  
 Final Flow Period.....Minutes 45 (E) 197 P.S.I. to (F) 282 P.S.I.  
 Final Closed In Period.....Minutes 60 (G) 598 P.S.I.  
 Final Hydrostatic Pressure.....(H) 1513 P.S.I.





**DIAMOND TESTING**  
**ROGER D. FRIEDLY - TESTER**  
**CELL 620-793-2043**

Company Name **VESS OIL CORP**  
 Contact **BILL HORIGAN**  
 Well Name **YOUNGER B #1**  
 Unique Well ID **DST #1 TOR/LANS A-F 3084-3228**  
 Surface Location **SEC 12-10S-17W-ROOKS-KS**  
 Field **WILDCAT**

**Test Information**

Job Number			
Test Unit			<b>NO. 5</b>
Representative	<b>JAKE FAHRENBRUCH</b>		
Well Operator	<b>VESS OIL CORP</b>		
Report Date			<b>2012/08/06</b>
Prepared By	<b>JAKE FAHRENBRUCH</b>		
Qualified By	<b>ROGER MARTIN</b>		
Formation	<b>CONVENTIONAL</b>		
Test Purpose	<b>DST #1 TOR/LANS (A-F) 3084-3228</b>		
Well Fluid Type	<b>Initial Test</b>		
H2S	<b>06 Water</b>		

Start Test Date	<b>2012/08/06</b>	Start Test Time	<b>00:12:00</b>
Final Test Date	<b>2012/08/06</b>	Final Test Time	<b>07:19:00</b>

**Remarks**

**RECOVERED:**

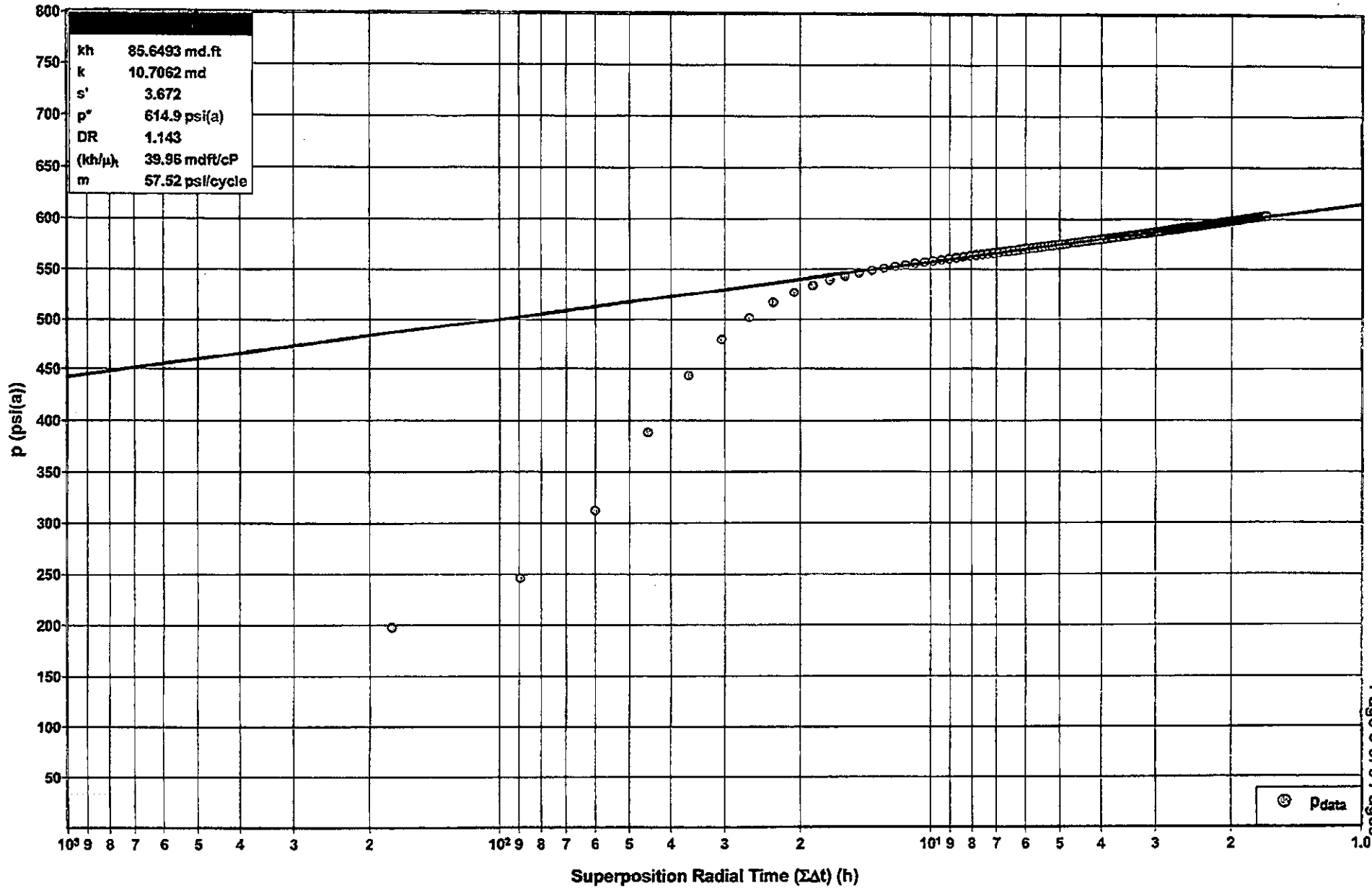
58'	<b>SLTOCM 1% OIL, 98% MUD</b>
189'	<b>G&amp;OWM 5% GAS, 16% OIL, 31% WTR, 49% MUD</b>
189'	<b>G&amp;OCMW 8% GAS, 11% OIL, 45% WTR, 36% MUD</b>
436'	<b>TOTAL FLUID</b>

**TOOL SAMPLE: 2% GAS, 4% OIL, 69% WTR, 36% MUD**

**CHLORIDES 41,000 Ppm**  
**PH 7.0**  
**RW .16 @ 69 deg.**

VESS OIL CORP  
 YOUNGER 'B' #1  
 DST #1 TOR/LANS 'A-F' 3,084' - 3,228'

DST #1 INITIAL SHUT-IN  
 Radial



# Oil Well Test - Buildup

## Radial Flow Analysis

### Analysis Results

Flow Capacity (kh) 85.6 md.ft	Total Skin (s')	3.784
Effective Permeability (k) 8.5649 md	Skin Due to Damage (s <sub>d</sub> )	3.784
Effective Gas Permeability (k <sub>g</sub> ) md	Skin Due To Inclination (s <sub>inc</sub> )	
Effective Oil Permeability (k <sub>o</sub> ) 8.5649 md	Skin Due To Partial Penetration (s <sub>pp</sub> )	
Effective Water Permeability (k <sub>w</sub> ) md	Pressure Drop Due to Total Skin (Δp <sub>skin</sub> )	189.1 psi(a)
Total Fluid Rate (in situ) ((qβ) <sub>i</sub> ) 14.1 rbb/d	Damage Ratio (DR)	1.148
Total Mobility ((k/μ) <sub>i</sub> ) 4.00 md/cP	Flow Efficiency (FE)	0.871
Total Transmissivity ((kh/μ) <sub>i</sub> ) 39.98 mdft/cP		
Semi-Log Slope (m) 57.62 psi/cycle		

### Reservoir Parameters

Net Pay (h)	10.000 ft
Total Porosity (φ <sub>t</sub> )	8.00 %
Gas Saturation (S <sub>g</sub> )	0.00 %
Oil Saturation (S <sub>o</sub> )	80.00 %
Water Saturation (S <sub>w</sub> )	20.00 %
Formation Compressibility (c <sub>f</sub> )	6.3341e-06 1/psi
Total Compressibility (c <sub>t</sub> )	1.3803e-05 1/psi
Wellbore Radius (r <sub>w</sub> )	0.300 ft

### Pressures

Extrapolated Pressure (p*)	614.9 psi(a)
Final Flowing Pressure (p <sub>wfo</sub> )	181.9 psi(a)
Final Measured Pressure (p <sub>last</sub> )	0.3 psi(a)

### Fluid Properties

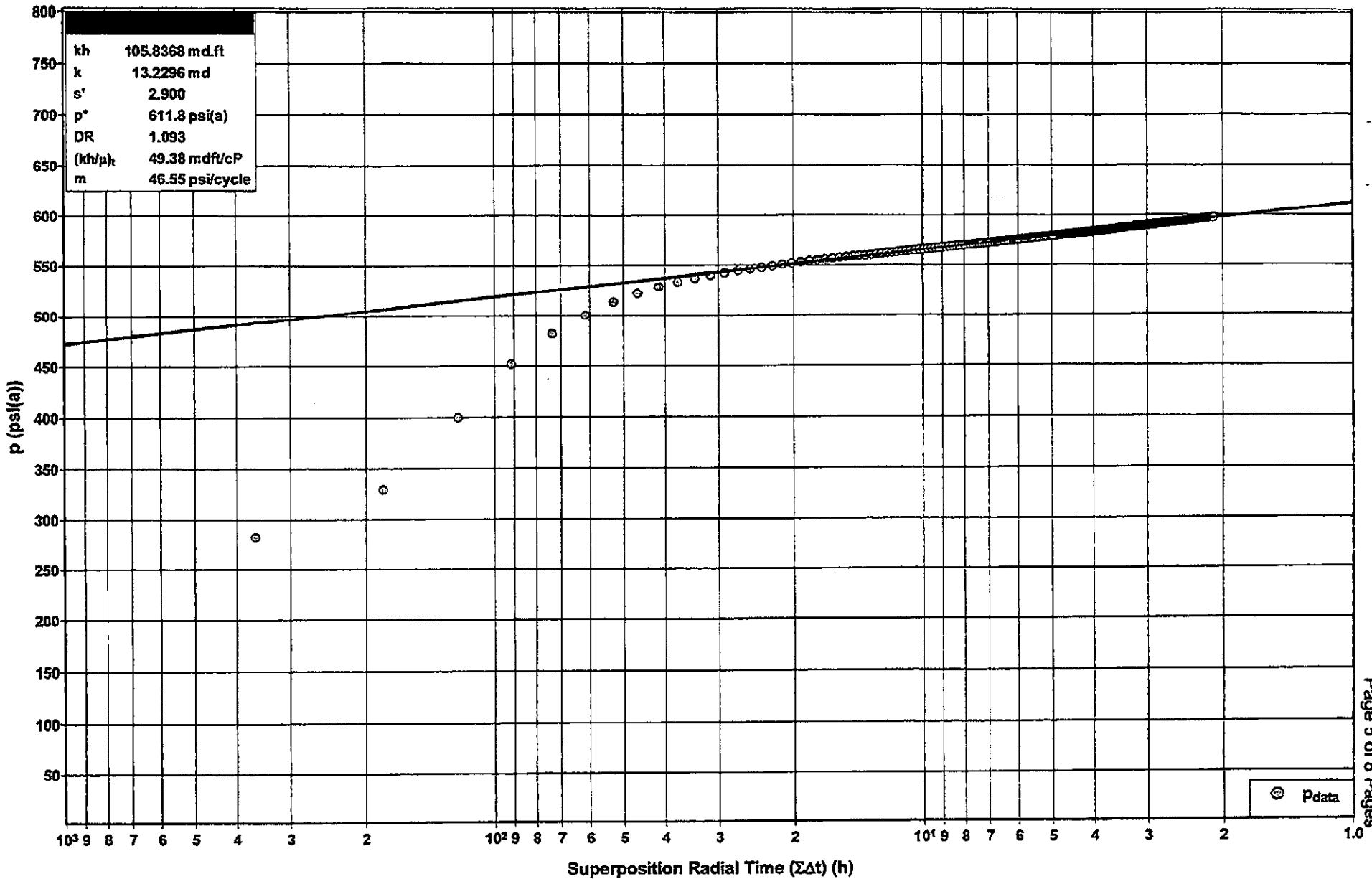
Reservoir Temperature (T <sub>resv</sub> )	103.0 °F
Reservoir Pressure (p <sub>resv</sub> )	1658.3 psi(a)
Oil Gravity (γ <sub>o</sub> )	34.0 °API
Oil Viscosity (μ <sub>o</sub> )	2.1435 cP
Oil Compressibility (c <sub>o</sub> )	9.8285e-06 1/psi
Oil Formation Volume Factor (B <sub>o</sub> )	1.178
Solution Gas Ratio (R <sub>s</sub> )	325.9 scf/bbl
Oil Correlation	Vasquez and Beggs
Oil Viscosity Correlation	Beggs & Robinson

### Production and Times

Corrected Time (L <sub>c</sub> )	0.49 h
Total Cumulative Production Oil (Cum <sub>oil</sub> )	0.00 Mbbl
Final Oil Rate (q <sub>o final</sub> )	12.0 bbl/d

VESS OIL CORP  
 YOUNGER 'B' #1  
 DST #1 TOR./LANS 'A-F' 3,084' - 3,228

DST #1 FINAL SHUT-IN  
 Radial



Page 5 of 8 Pages

# Oil Well Test - Buildup

## Radial Flow Analysis

### Analysis Results

Flow Capacity (kh) 106 md.ft	Total Skin (s')	3.011
Effective Permeability (k) 10.5837 md	Skin Due to Damage (s <sub>d</sub> )	3.011
Effective Gas Permeability (k <sub>g</sub> ) md	Skin Due To Inclination (s <sub>inc</sub> )	
Effective Oil Permeability (k <sub>o</sub> ) 10.5837 md	Skin Due To Partial Penetration (s <sub>pp</sub> )	
Effective Water Permeability (k <sub>w</sub> ) md	Pressure Drop Due to Total Skin (Δp <sub>skin</sub> )	121.8 psi(a)
Total Fluid Rate (in situ) ((qβ) <sub>i</sub> ) 14.1 rbb/d	Damage Ratio (DR)	1.097
Total Mobility ((k/μ) <sub>i</sub> ) 4.94 md/cP	Flow Efficiency (FE)	0.911
Total Transmissivity ((kh/μ) <sub>i</sub> ) 49.38 mdft/cP		
Semi-Log Slope (m) 46.65 psi/cycle		

### Reservoir Parameters

Net Pay (h) 10.000 ft	
Total Porosity (φ <sub>t</sub> ) 8.00 %	
Gas Saturation (S <sub>g</sub> ) 0.00 %	
Oil Saturation (S <sub>o</sub> ) 80.00 %	
Water Saturation (S <sub>w</sub> ) 20.00 %	
Formation Compressibility (c <sub>f</sub> ) 5.3341e-06 1/psi	
Total Compressibility (c <sub>t</sub> ) 1.3803e-05 1/psi	
Wellbore Radius (r <sub>w</sub> ) 0.300 ft	

### Pressures

Extrapolated Pressure (p*) 611.8 psi(a)	
Final Flowing Pressure (p <sub>wf</sub> ) 282.1 psi(a)	
Final Measured Pressure (p <sub>last</sub> ) 0.3 psi(a)	

### Fluid Properties

Reservoir Temperature (T <sub>resv</sub> ) 103.0 °F	
Reservoir Pressure (p <sub>resv</sub> ) 1668.3 psi(a)	
Oil Gravity (γ <sub>o</sub> ) 34.0 °API	
Oil Viscosity (μ <sub>o</sub> ) 2.1435 cP	
Oil Compressibility (c <sub>o</sub> ) 9.8285e-06 1/psi	
Oil Formation Volume Factor (B <sub>o</sub> ) 1.178	
Solution Gas Ratio (R <sub>s</sub> ) 325.9 scf/bbl	
Oil Correlation Vasquez and Beggs	
Oil Viscosity Correlation Beggs & Robinson	

### Production and Times

Corrected Time (t <sub>c</sub> ) 1.25 h	
Total Cumulative Production Oil (Cum <sub>oil</sub> ) 0.00 Mbbl	
Final Oil Rate (q <sub>o final</sub> ) 12.0 bbl/d	

VESS OIL CORP.  
YOUNGER 'B' #1

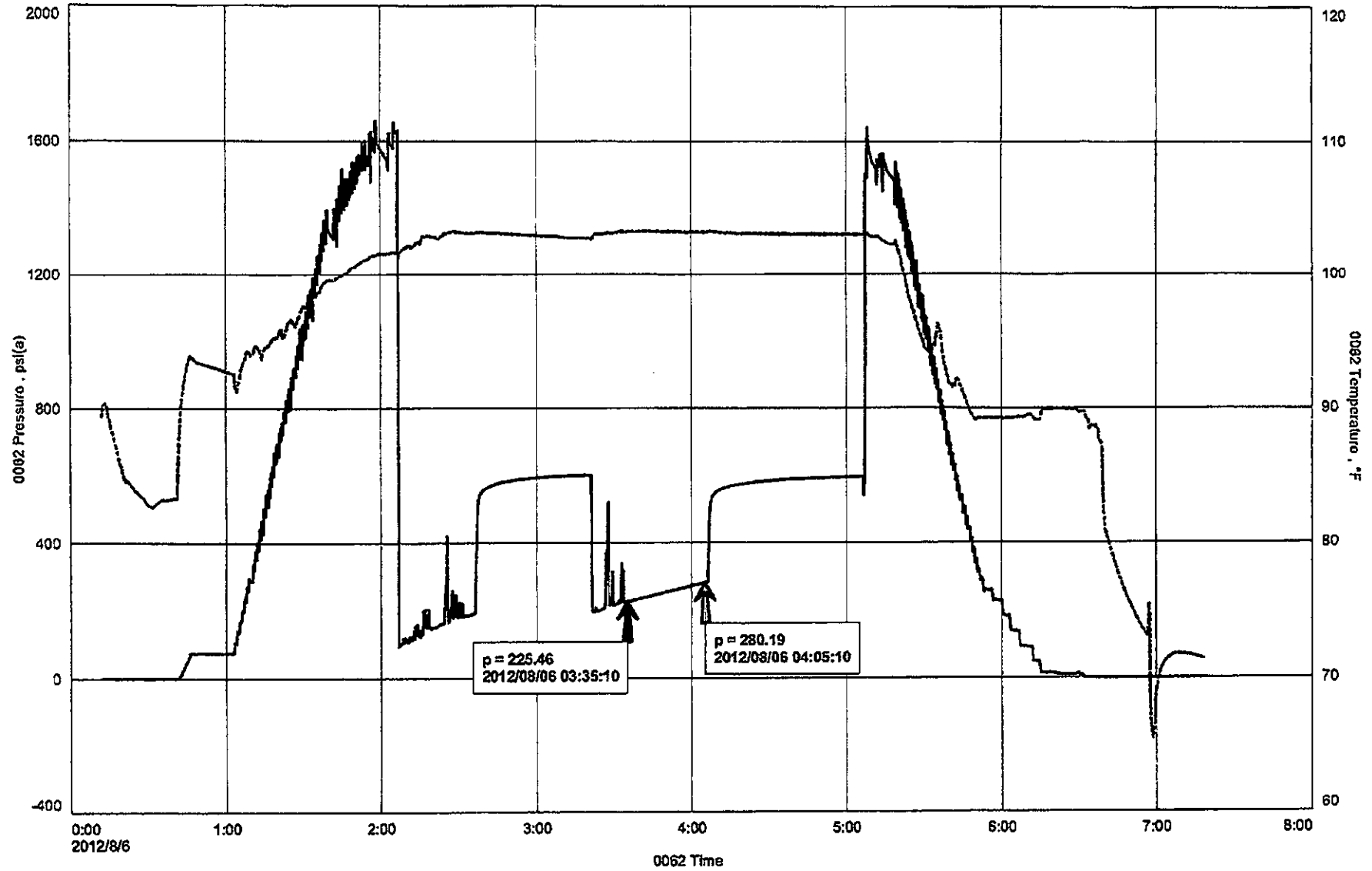
DST #1 TOR/LANS 'A-F' 3,084' - 3,228'

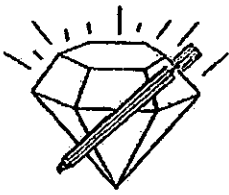
<u>DESCRIPTION</u>	<u>SECOND READING</u>	<u>FIRST READING</u>	<u>PRESSURE CHANGE</u>	<u>DRILL- PIPE SIZE-ID</u>	<u>FLUID GRADIENT</u>	<u>TIME CHANGE</u>	<u>TOTAL TIME</u>	<u>DAILY PRODUCTION</u>	<u>AVERAGE PERCENTAGE OIL</u>	<u>ESTIMATED DAILY PRODUCTION</u>
FINAL FLOW	280	225	55	0.0142	0.359	30	1440	104	11.40%	12

VESS OIL CORP  
DST #1 TOR/LANS A-F 3084-3228  
Start Test Date: 2012/08/06  
Final Test Date: 2012/08/06

YOUNGER B #1  
Formation: DST #1 TOR/LANS (A-F) 3084-3228

### DST #1 ESTIMATED PRODUCTION





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

Company Vess Oil Corporation Lease & Well No. Younger "B" No. 1  
Elevation 1962 KB Formation Lansing "G" Effective Pay \_\_\_\_\_ Ft. Ticket No. 2876  
Date 8-6-12 Sec. 12 Twp. 10S Range 17W County Rooks State Kansas  
Test Approved By Roger L. Martin Diamond Representative Roger D. Friedly

Formation Test No. 2 Interval Tested from 3,228 ft. to 3,240 ft. Total Depth 3,240 ft.  
Packer Depth 3,223 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth 3,228 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Depth of Selective Zone Set \_\_\_\_\_ ft.

Top Recorder Depth (Inside) 3,229 ft. Recorder Number 0062 Cap. 5,000 psi.  
Bottom Recorder Depth (Outside) 3,237 ft. Recorder Number 11033 Cap. 5,150 psi.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ psi.

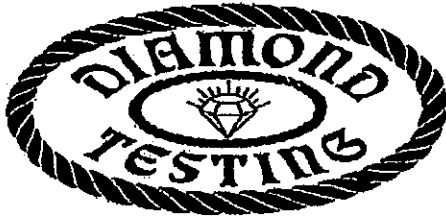
Drilling Contractor L. D. Drilling, Inc. - Rlg 1 Drill Collar Length \_\_\_\_\_ ft. I.D. \_\_\_\_\_ in.  
Mud Type Chemical Viscosity 62 Weight Pipe Length \_\_\_\_\_ ft. I.D. \_\_\_\_\_ in.  
Weight 9.0 Water Loss 6.4 cc. Drill Pipe Length 3,201 ft. I.D. 3 1/4 in.  
Chlorides 1,700 P.P.M. Test Tool Length 27 ft. Tool Size 3 1/2-IF in.  
Jars: Make Sterling Serial Number 5 Anchor Length 12 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: Weak, 1/8 in. blow increasing. Off bottom of bucket in 24 3/4 mins. No blow back during shut-in.  
2nd Open: Weak, surface blow increasing. Off bottom of bucket in 29 3/4 mins. No blow back during shut-in.

Recovered 8 ft. of slightly oil cut muddy water = .082080 bbls. (Grind out: 2%-oil; 79%-water; 19%-mud)  
Recovered 126 ft. of muddy water w/a scum of oil = 1.292760 bbls. (Grind out: 83%-water; 17%-mud)  
Recovered 126 ft. of salt water = 1.292760 bbls. (Grind out: 100%-water) Chlorides: 66,500 Ppm PH: 7.0 RW: .09 @ 94°  
Recovered 260 ft. of TOTAL FLUID = 2.667600 bbls.  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Remarks Tool Sample Grind Out: 100%-water with oil specks

Time Set Packer(s) 3:17 P.M. Time Started off Bottom 6:17 P.M. Maximum Temperature 103°  
Initial Hydrostatic Pressure.....(A) 1515 P.S.I.  
Initial Flow Period.....Minutes 30 (B) 17 P.S.I. to (C) 69 P.S.I.  
Initial Closed In Period.....Minutes 45 (D) 610 P.S.I.  
Normal Flow Period.....Minutes 45 (E) 70 P.S.I. to (F) 141 P.S.I.  
Normal Closed In Period.....Minutes 60 (G) 608 P.S.I.  
Normal Hydrostatic Pressure.....(H) 1515 P.S.I.





**DIAMOND TESTING**  
**ROGER D. FRIEDLY - TESTER**  
**CELL 620-793-2043**

Company Name **VESS OIL CORP**  
 Contact **BILL HORIGAN**  
 Well Name **YOUNGER B #1**  
 Unique Well ID **DST #2 LANSING G 3228-3240**  
 Surface Location **SEC 12-10S-17W-ROOKS CO-KS**  
 Field **WILDCAT**

**Test Information**

Test Type	<b>CONVENTIONAL</b>	Job Number	<b>NO. 5</b>
Formation	<b>DST #2 LANSING G 3228-3240</b>	Test Unit	
Test Purpose	<b>Initial Test</b>	Representative	<b>JAKE FAHRENBRUCH</b>
Well Fluid Type	<b>06 Water</b>	Well Operator	<b>VESS OIL CORP</b>
H2S		Report Date	<b>2012/08/06</b>
		Prepared By	<b>JAKE FAHRENBRUCH</b>
		Qualified By	<b>ROGER MARTIN</b>

Start Test Date	<b>2012/08/06</b>	Start Test Time	<b>13:41:00</b>
Final Test Date	<b>2012/08/06</b>	Final Test Time	<b>20:28:00</b>

**Remarks**

**RECOVERED:**

8'	<b>SLTOCMW 2% OIL, 79% WTR, 19% MUD</b>
126'	<b>MW 83% WTR, 17% MUD, SCUM OF OIL</b>
126'	<b>SW 100% WTR</b>
260'	<b>TOTAL FLUID</b>

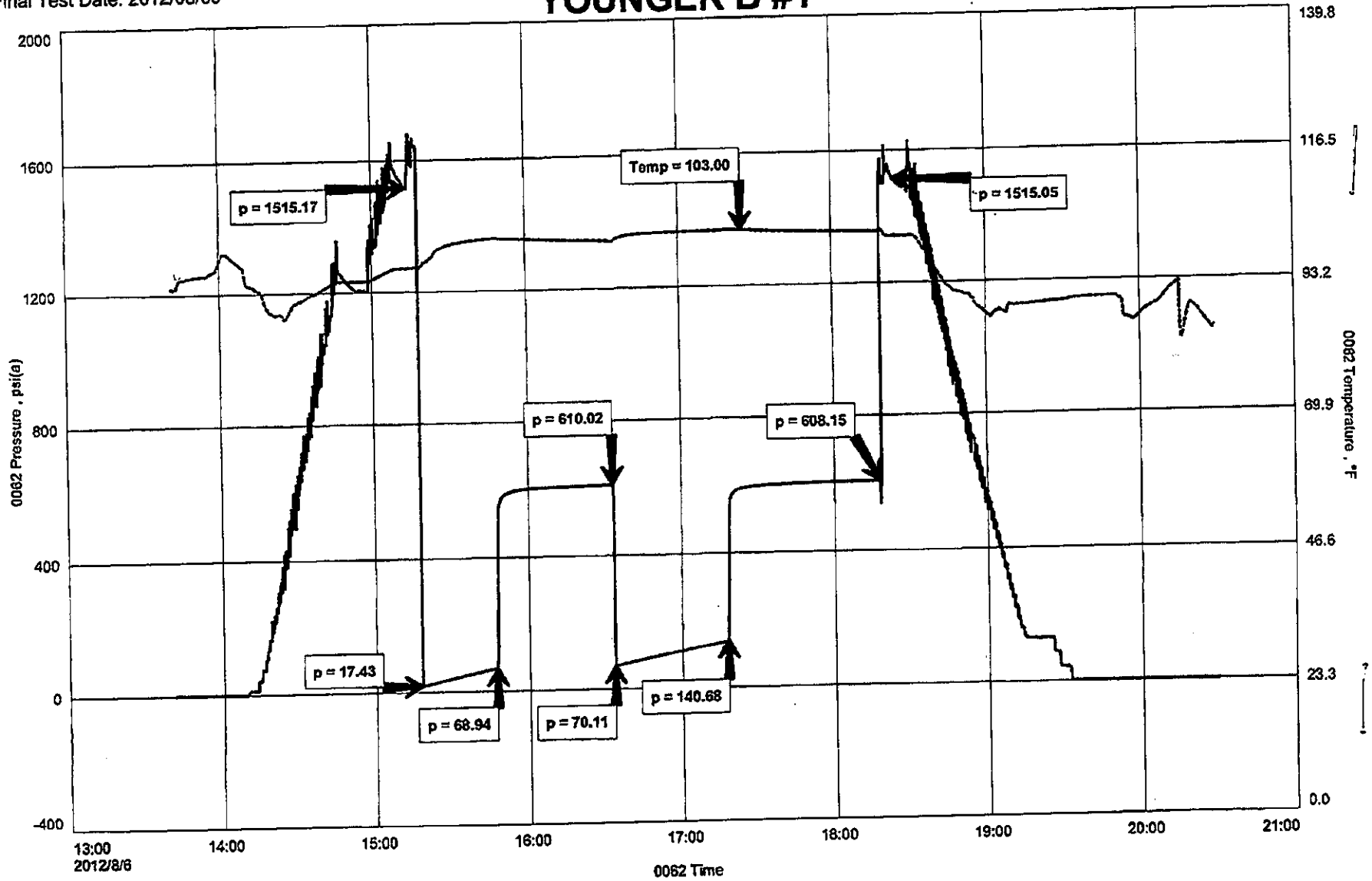
**TOOL SAMPLE: 100% WTR-OIL SPECKS**

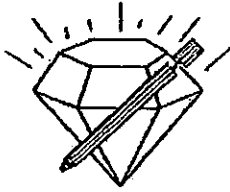
**CHLORIDES 68,600 Ppm**  
**PH 7.0**  
**RW .09 @ 94 deg**

VESS OIL CORP  
DST #2 LANSING G 3228-3240  
Start Test Date: 2012/08/06  
Final Test Date: 2012/08/06

YOUNGER B #1  
Formation: DST #2 LANSING G 3228-3240

# YOUNGER B #1





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

Company Vess Oil Corporation Lease & Well No. Younger "B" No. 1  
Elevation 1962 KB Formation Kansas City "H"/Pleasanton Effective Pay \_\_\_\_\_ Ft. Ticket No. 2877  
Date 8-7-12 Sec. 12 Twp. 10S Range 17W County Rooks State Kansas  
Test Approved By Roger L. Martin Diamond Representative Roger D. Friedly

Formation Test No. 3 Interval Tested from 3,253 ft. to 3,400 ft. Total Depth 3,400 ft.  
Packer Depth 3,248 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth 3,253 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Depth of Selective Zone Set \_\_\_\_\_ ft.

Top Recorder Depth (Inside) 3,386 ft. Recorder Number 0062 Cap. 5,000 psi.  
Bottom Recorder Depth (Outside) 3,397 ft. Recorder Number 11033 Cap. 5,150 psi.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ psi.

Drilling Contractor L. D. Drilling, Inc. - Rig 1 Drill Collar Length \_\_\_\_\_ ft. I.D. \_\_\_\_\_ in.  
Mud Type Chemical Viscosity 49 Weight Pipe Length \_\_\_\_\_ ft. I.D. \_\_\_\_\_ in.  
Weight 9.2 Water Loss 6.4 cc. Drill Pipe Length 3,226 ft. I.D. 3 1/4 in.  
Chlorides 1,700 P.P.M. Test Tool Length 27 ft. Tool Size 3 1/2-IF in.  
Jars: Make Sterling Serial Number 5 Anchor Length 20' perf. w/127' drill pipe 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: Weak, 1/8 in. blow increasing to 1 1/4 in. in bucket. No blow back during shut-in.  
2nd Open: Weak, surface blow. Died after 10 mins. No blow back during shut-in.

Recovered 25 ft. of drilling mud = .256500 bbls. (Grind out: 100%-mud)  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks Tool Sample Grind Out: 100%-drilling mud

Time Set Packer(s)	<u>2:11 P.M.</u>	Time Started off Bottom	<u>5:11 P.M.</u>	Maximum Temperature	<u>103°</u>
Initial Hydrostatic Pressure.....(A)			<u>1625</u> P.S.I.		
Initial Flow Period.....Minutes	<u>30</u>	(B)	<u>89</u> P.S.I.	to (C)	<u>99</u> P.S.I.
Initial Closed In Period.....Minutes	<u>45</u>	(D)	<u>725</u> P.S.I.		
Final Flow Period.....Minutes	<u>45</u>	(E)	<u>94</u> P.S.I.	to (F)	<u>99</u> P.S.I.
Final Closed In Period.....Minutes	<u>60</u>	(G)	<u>650</u> P.S.I.		
Final Hydrostatic Pressure.....		" "	<u>1623</u> P.S.I.		



**DIAMOND TESTING**  
**ROGER D. FRIEDLY - TESTER**  
**CELL 620-793-2043**

**Company Name** VESS OIL CORP  
**Contact** BILL HORIGAN  
**Well Name** YOUNGER 'B' #1  
**Unique Well ID** DST #3 KC 'H' - PLEAS. 3253-3400  
**Surface Location** SEC 12-108-17W-ROOKS CO.-KS  
**Field** WILDCAT

**Test Information**

**Job Number** NO. 6  
**Test Unit** JAKE FAHRENBRUCH  
**Representative** VESS OIL CORP  
**Well Operator** 2012/08/07  
**Report Date** JAKE FAHRENBRUCH  
**Prepared By** ROGER MARTIN  
**Qualified By**

**Test Type** CONVENTIONAL  
**Formation** DST #3 KC 'H' - PLEAS. 3253-3400  
**Test Purpose** Initial Test  
**Well Fluid Type** 01 Oil  
**H2S**

**Start Test Date** 2012/08/07 **Start Test Time** 12:06:00  
**Final Test Date** 2012/08/07 **Final Test Time** 19:20:00

**Remarks**

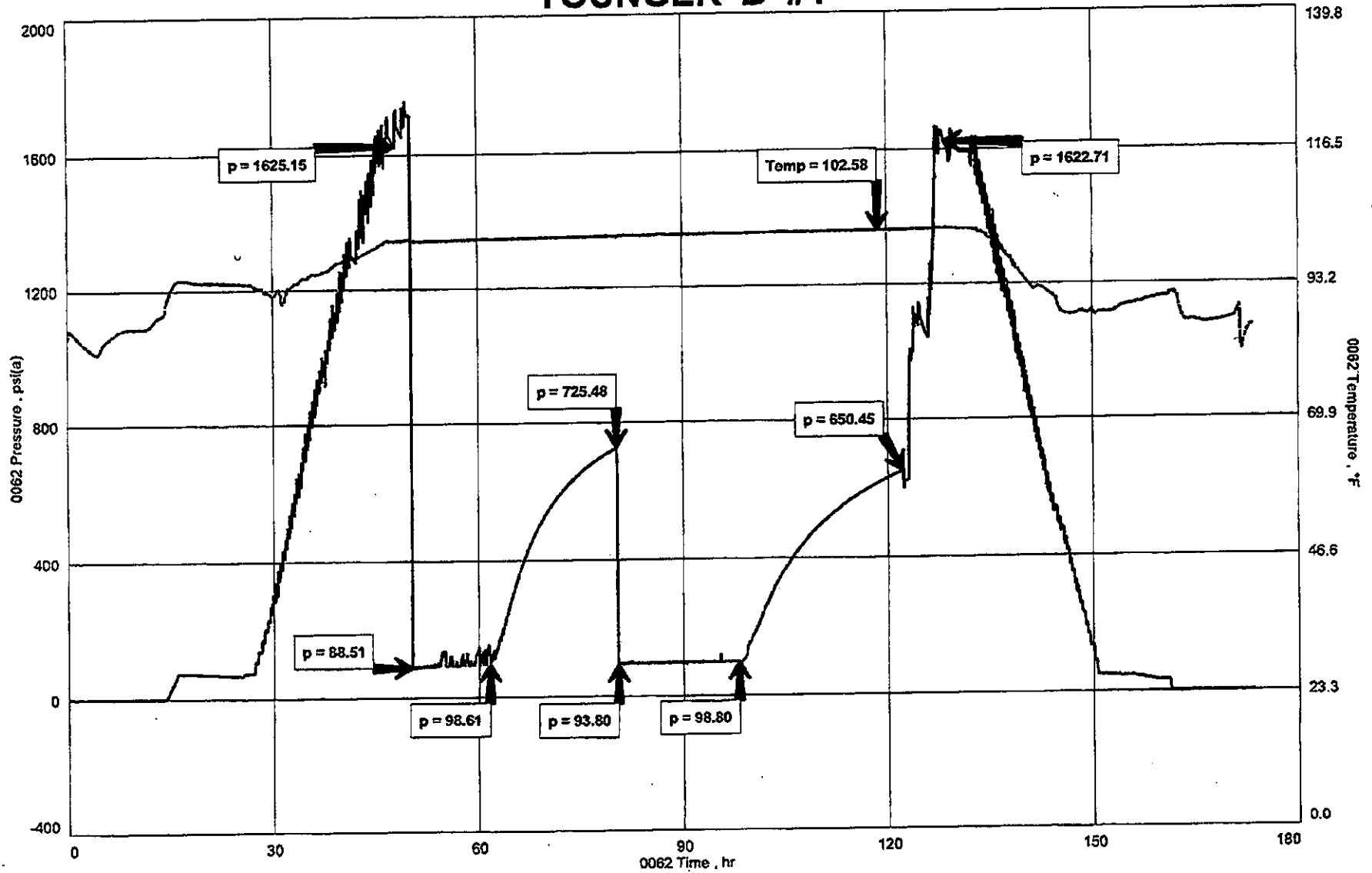
**RECOVERED: 25' DRILLING MUD 100%MUD**

**TOOL SAMPLE: 100% DRILLING MUD**

VESS OIL CORP  
DST #3 KC 'H' - PLEAS. 3253-3400  
Start Test Date: 2012/08/07  
Final Test Date: 2012/08/07

YOUNGER 'B' #1  
Formation: DST #3 KC 'H' - PLEAS. 3253-3400

# YOUNGER 'B' #1





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

Company Vess Oil Corporation Lease & Well No. Younger "B" No. 1  
Elevation 1962 KB Formation Arbuckle Effective Pay \_\_\_\_\_ Ft. Ticket No. 2878  
Date 8-8-12 Sec. 12 Twp. 10S Range 17W County Rooks State Kansas  
Test Approved By Roger L. Martin Diamond Representative Roger D. Friedly

Formation Test No. 4 Interval Tested from 3,367 ft. to 3,507 ft. Total Depth 3,507 ft.  
Packer Depth 3,362 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth 3,367 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Depth of Selective Zone Set \_\_\_\_\_ ft.

Top Recorder Depth (Inside) 3,488 ft. Recorder Number 0062 Cap. 5,000 psi.  
Bottom Recorder Depth (Outside) 3,504 ft. Recorder Number 11033 Cap. 5,150 psi.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ psi.

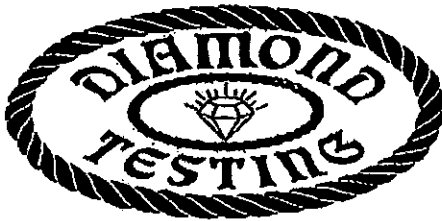
Drilling Contractor L. D. Drilling, Inc. - Rig 1 Drill Collar Length \_\_\_\_\_ ft I.D. \_\_\_\_\_ in.  
Mud Type Chemical Viscosity 56 Weight Pipe Length \_\_\_\_\_ ft I.D. \_\_\_\_\_ in.  
Weight 9.3 Water Loss 6.4 cc. Drill Pipe Length 3,340 ft I.D. 3 1/4 in.  
Chlorides 1,700 P.P.M. Test Tool Length 27 ft Tool Size 3 1/2-IF in.  
Jars: Make Sterling Serial Number 5 Anchor Length 45' perf. w/95' drill pipe 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: Weak, 1/2 in. blow increasing. Off bottom of bucket in 22 mins. No blow back during shut-in.  
2nd Open: Weak, surface blow in 1 1/2 mins. increasing. Off bottom of bucket in 33 1/4 mins. No blow back during shut-in.

Recovered 98 ft. of oil cut watery mud = 1.005480 bbls. (Grind out: 2%-oil; 4%-water; 94%-mud)  
Recovered 189 ft. of gas & oil cut watery mud = 1.939140 bbls. (Grind out: 2%-gas; 7%-oil; 37%-water; 54%-mud) Chlorides: 14,000 Ppm PH: 7.0 RW: .36 @ 82°  
Recovered 287 ft. of TOTAL FLUID = 2.944620 bbls.  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks Tool Sample Grind Out: 8%-gas; 10%-oil; 30%-water; 52%-mud

Time Set Packer(s) 6:40 P.M. Time Started off Bottom 9:40 P.M. Maximum Temperature 105°  
Initial Hydrostatic Pressure.....(A) 1707 P.S.I.  
Initial Flow Period.....Minutes 30 (B) 87 P.S.I. to (C) 136 P.S.I.  
Initial Closed In Period.....Minutes 45 (D) 1060 P.S.I.  
Final Flow Period.....Minutes 45 (E) 144 P.S.I. to (F) 208 P.S.I.  
Final Closed In Period.....Minutes 60 (G) 1064 P.S.I.  
Final Hydrostatic Pressure.....(H) 1671 P.S.I.



**DIAMOND TESTING**  
**ROGER D. FRIEDLY - TESTER**  
**CELL 620-793-2043**

**Company Name** VESS OIL CORP  
**Contact** BILL HORIGAN  
**Well Name** YOUNGER 'B' #1  
**Unique Well ID** DST #4 ARBUCKLE 3367-3507  
**Surface Location** SEC 12-10S-17W-ROOKS CO.-KS  
**Field** WILDCAT

**Test Information**

<b>Test Type</b>	CONVENTIONAL	<b>Job Number</b>	NO. 5
<b>Formation</b>	DST #4 ARBUCKLE 3367-3507	<b>Test Unit</b>	
<b>Test Purpose</b>	Initial Test	<b>Representative</b>	JAKE FAHRENBRUCH
<b>Well Fluid Type</b>	01 Oil	<b>Well Operator</b>	VESS OIL CORP
<b>H2S</b>		<b>Report Date</b>	2012/08/09
		<b>Prepared By</b>	JAKE FAHRENBRUCH
		<b>Qualified By</b>	ROGER MARTIN

**Start Test Date** 2012/08/08 **Start Test Time** 16:16:00  
**Final Test Date** 2012/08/08 **Final Test Time** 23:55:00

**Remarks**

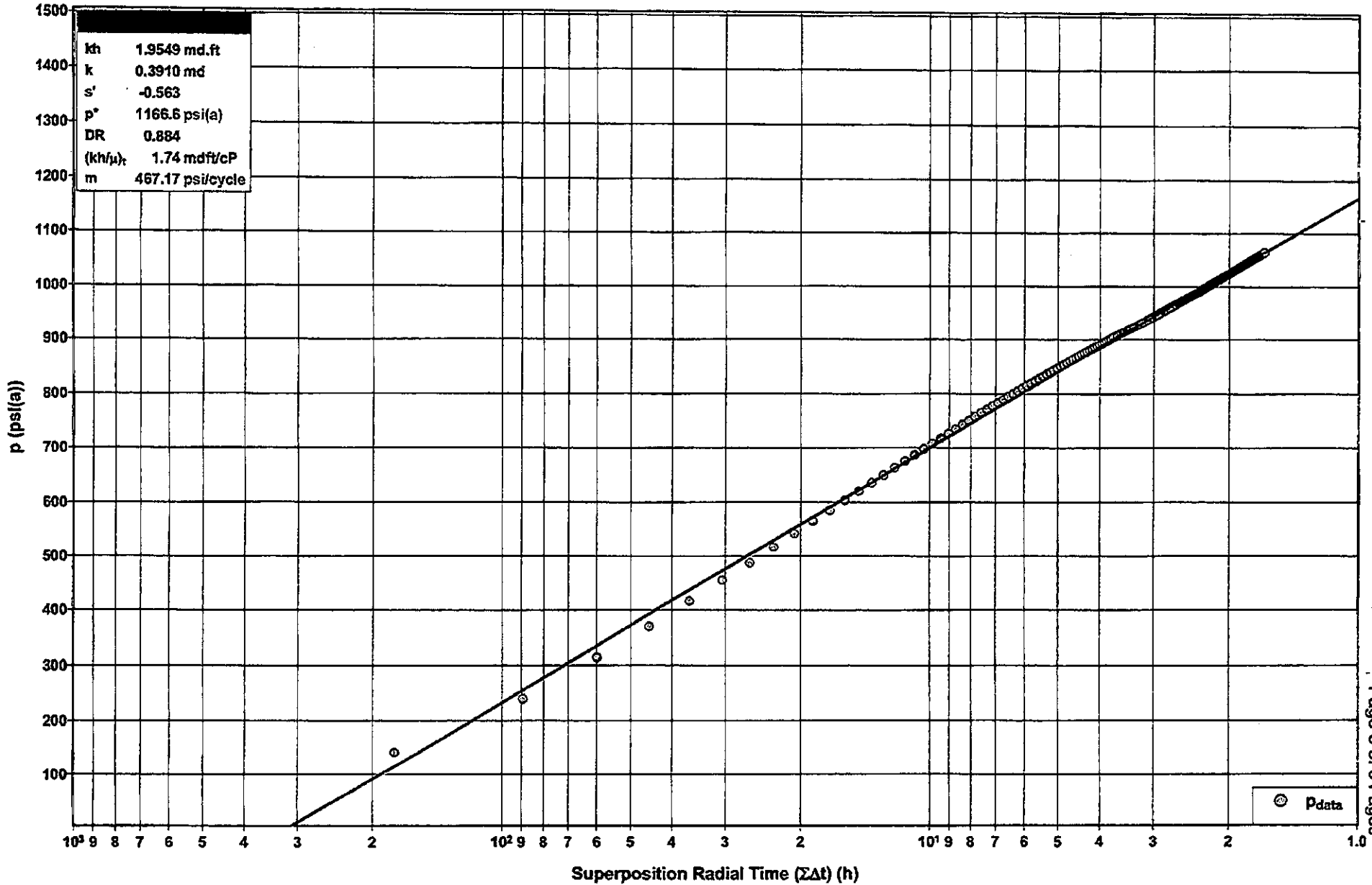
**RECOVERED:** 98' OCWM 2% OIL, 4% WTR, 94% MUD  
 189' G&OCWM 2% GAS, 7% OIL, 37% WTR, 54% MUD  
 287' TOTAL FLUID

**TOOL SAMPLE:** 8% GAS, 10% OIL, 30% WTR, 52% MUD

**CHLORIDES:** 14,000 Ppm  
**RW:** .36 @ 82 Deg  
**PH:** 7.0

VESS OIL CORP  
 YOUNGER 'B' #1  
 DST #4 ARBUCKLE 3,367' - 3,507'

DST #4 INITIAL SHUT-IN  
 Radial





## Oil Well Test - Buildup Radial Flow Analysis

### Analysis Results

Flow Capacity (kh)	1.96 md.ft	Total Skin (s')	-0.563
Effective Permeability (k)	0.3910 md	Skin Due to Damage (s <sub>d</sub> )	-0.563
Effective Gas Permeability (k <sub>g</sub> )	md	Skin Due To Inclination (s <sub>inc</sub> )	
Effective Oil Permeability (k <sub>o</sub> )	0.3910 md	Skin Due To Partial Penetration (s <sub>pp</sub> )	
Effective Water Permeability (k <sub>w</sub> )	md	Pressure Drop Due to Total Skin (Δp <sub>skin</sub> )	psi(a)
Total Fluid Rate (in situ) ((qβ)) <sub>i</sub>	5.0 rbb/d	Damage Ratio (DR)	0.884
Total Mobility ((k/μ)) <sub>i</sub>	0.36 md/cP	Flow Efficiency (FE)	1.131
Total Transmissivity ((kh/μ)) <sub>i</sub>	1.74 mdft/cP		
Semi-Log Slope (m)	467.17 psi/cycle		

### Reservoir Parameters

Net Pay (h)	5.000 ft
Total Porosity (φ <sub>t</sub> )	15.00 %
Gas Saturation (S <sub>g</sub> )	0.00 %
Oil Saturation (S <sub>o</sub> )	80.00 %
Water Saturation (S <sub>w</sub> )	20.00 %
Formation Compressibility (c <sub>f</sub> )	4.1093e-06 1/psi
Total Compressibility (c <sub>t</sub> )	1.6023e-05 1/psi
Wellbore Radius (r <sub>w</sub> )	0.300 ft

### Pressures

Extrapolated Pressure (p*)	1166.6 psi(a)
Final Flowing Pressure (p <sub>wfo</sub> )	135.9 psi(a)
Final Measured Pressure (p <sub>last</sub> )	0.3 psi(a)

### Fluid Properties

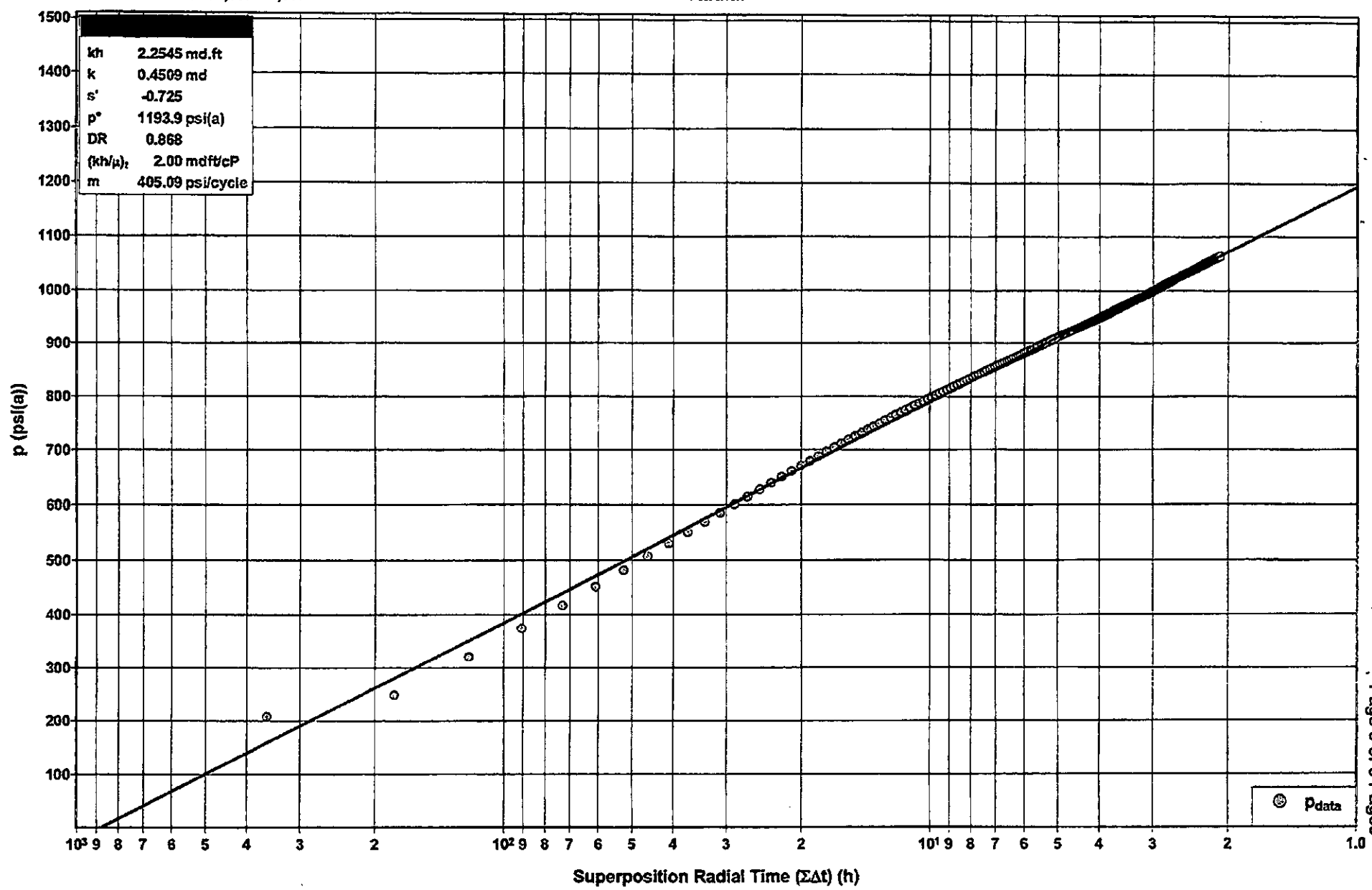
Reservoir Temperature (T <sub>resv</sub> )	105.0 °F
Reservoir Pressure (p <sub>resv</sub> )	1879.9 psi(a)
Oil Gravity (γ <sub>o</sub> )	39.0 °API
Oil Viscosity (μ <sub>o</sub> )	1.1246 cP
Oil Compressibility (c <sub>o</sub> )	1.2891e-05 1/psi
Oil Formation Volume Factor (B <sub>o</sub> )	1.249
Solution Gas Ratio (R <sub>s</sub> )	465.1 scf/bbl
Oil Correlation	Vasquez and Beggs
Oil Viscosity Correlation	Beggs & Robinson

### Production and Times

Corrected Time (t <sub>c</sub> )	0.49 h
Total Cumulative Production Oil (Cum <sub>oil</sub> )	0.00 Mbbl
Final Oil Rate (q <sub>o final</sub> )	4.0 bbl/d

VESS OIL CORP  
 YOUNGER 'B' #1  
 DST #4 ARBUCKLE 3,367' - 3,507'

DST #4 FINAL SHUT-IN  
 Radial



## Oil Well Test - Buildup Radial Flow Analysis

### Analysis Results

Flow Capacity (kh)	2.25 md.ft	Total Skin (s')	-0.725
Effective Permeability (k)	0.4509 md	Skin Due to Damage (s <sub>d</sub> )	-0.725
Effective Gas Permeability (k <sub>g</sub> )	md	Skin Due To Inclination (s <sub>inc</sub> )	
Effective Oil Permeability (k <sub>o</sub> )	0.4509 md	Skin Due To Partial Penetration (s <sub>pp</sub> )	
Effective Water Permeability (k <sub>w</sub> )	md	Pressure Drop Due to Total Skin (Δp <sub>skin</sub> )	psi(a)
Total Fluid Rate (in situ) ((qβ) <sub>i</sub> )	5.0 rbbl/d	Damage Ratio (DR)	0.868
Total Mobility ((k/μ) <sub>i</sub> )	0.40 md/cP	Flow Efficiency (FE)	1.163
Total Transmissivity ((kh/μ) <sub>i</sub> )	2.00 mdf/cP		
Semi-Log Slope (m)	405.09 psi/cycle		

### Reservoir Parameters

Net Pay (h)	5.000 ft
Total Porosity (φ <sub>t</sub> )	16.00 %
Gas Saturation (S <sub>g</sub> )	0.00 %
Oil Saturation (S <sub>o</sub> )	80.00 %
Water Saturation (S <sub>w</sub> )	20.00 %
Formation Compressibility (c <sub>f</sub> )	4.1093e-06 1/psi
Total Compressibility (c <sub>t</sub> )	1.5023e-05 1/psi
Wellbore Radius (r <sub>w</sub> )	0.300 ft

### Pressures

Extrapolated Pressure (p*)	1193.9 psf(a)
Final Flowing Pressure (p <sub>wfo</sub> )	207.8 psf(a)
Final Measured Pressure (p <sub>last</sub> )	0.3 psf(a)

### Fluid Properties

Reservoir Temperature (T <sub>resv</sub> )	105.0 °F
Reservoir Pressure (p <sub>resv</sub> )	1879.9 psf(a)
Oil Gravity (γ <sub>o</sub> )	39.0 °API
Oil Viscosity (μ <sub>o</sub> )	1.1246 cP
Oil Compressibility (c <sub>o</sub> )	1.2891e-05 1/psi
Oil Formation Volume Factor (B <sub>o</sub> )	1.249
Solution Gas Ratio (R <sub>s</sub> )	465.1 scf/bbl
Oil Correlation	Vasquez and Beggs
Oil Viscosity Correlation	Beggs & Robinson

### Production and Times

Corrected Time (t <sub>c</sub> )	1.24 h
Total Cumulative Production Oil (Cum <sub>oil</sub> )	0.00 Mbbl
Final Oil Rate (q <sub>o final</sub> )	4.0 bbl/d

VESS OIL CORP.  
YOUNGER 'B' #1

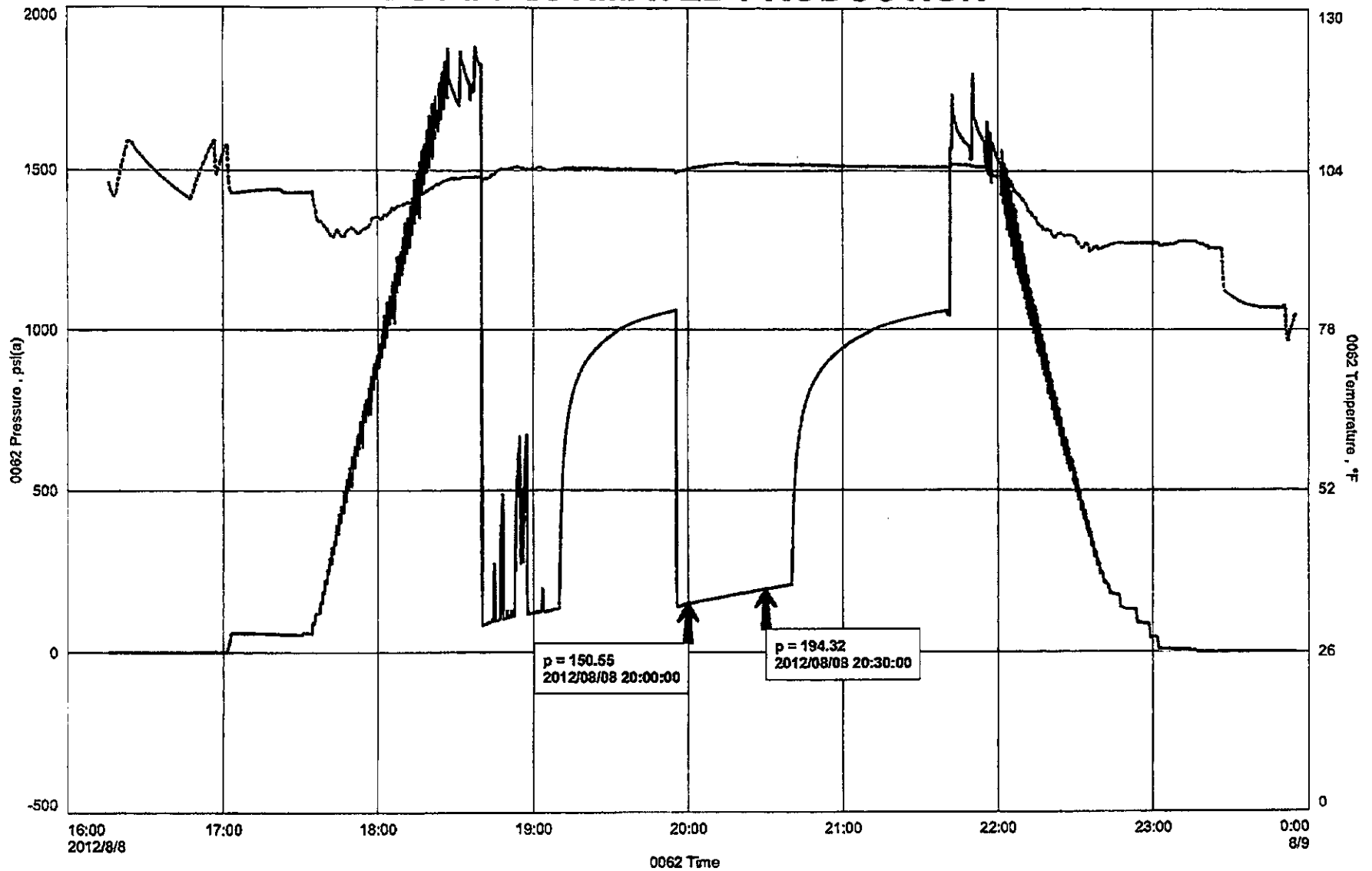
DST #4 ARBUCKLE 3,367' - 3,507

<u>DESCRIPTION</u>	<u>SECOND READING</u>	<u>FIRST READING</u>	<u>PRESSURE CHANGE</u>	<u>DRILL-PIPE SIZE-ID</u>	<u>FLUID GRADIENT</u>	<u>TIME CHANGE</u>	<u>TOTAL TIME</u>	<u>DAILY PRODUCTION</u>	<u>AVERAGE PERCENTAGE OIL</u>	<u>ESTIMATED DAILY PRODUCTION</u>
FINAL FLOW	194	151	43	0.0142	0.359	30	1440	82	5.00%	4

VESS OIL CORP  
DST #4 ARBUCKLE 3367-3507  
Start Test Date: 2012/08/08  
Final Test Date: 2012/08/08

YOUNGER 'B' #1  
Formation: DST #4 ARBUCKLE 3367-3507

### DST #4 ESTIMATED PRODUCTION



VESS OIL CORP  
DST #4 ARBUCKLE 3367-3507  
Start Test Date: 2012/08/08  
Final Test Date: 2012/08/08

YOUNGER 'B' #1  
Formation: DST #4 ARBUCKLE 3367-3507

# YOUNGER 'B' #1

