

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1265539
OIL & GAS CONSERVATION DIVISION

Form ACO-1
November 2016
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 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: _____

1265539

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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GEOLOGI ST.'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY	RANGE Oil Co., Inc.	WELL NAME	Jacobson #2
LEASE	Jacobson #2	FIELD	Panther Ranch SW
LOCATION	2355' TAN + 2195' FWL	SEC	31 T19S R2E R6E 64E
COUNTY	CHASE STATE	CONTRACTOR	C & S Drilling Co., Rig #1
SPUD	8-17-15	COMP	8-28-15
RTD	2326'	LTD	2323'
MUD UP	1500'	TYPE MUD	Oil/Water
SAMPLES SAVED FROM	1500'	TO	R7D
DRILLING TIME KEPT FROM	1500'	TO	R7B
SAMPLES EXAMINED FROM	1500'	TO	R7A
SAMPLES EXAMINED FROM	1500'	TO	R7D
GEOLOGICAL SUPERVISION FROM	Ken Wallace		
GEOLOGIST ON WELL	Ken Wallace		

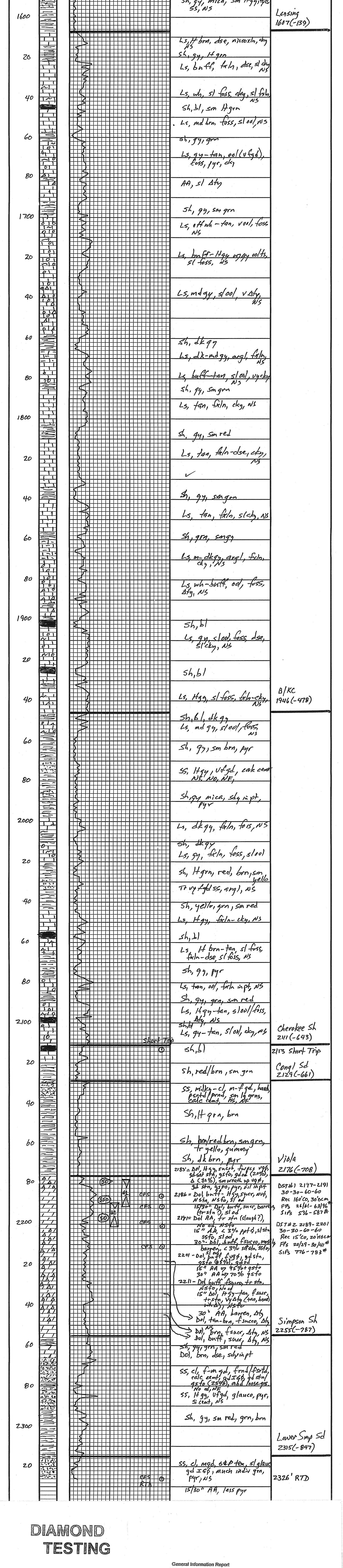
REMARKS: Production set to further evaluate Viola.
Ken Wallace

8-15-15 MEAT
8-16-15 10 AM start drilling
8-18-15 7:50 AM Delg @ 1180' 7/8" @ 211' 1934'
8-19-15 8 AM Delg @ 1898'; RT @ 1585'; 7/8" @ 1523'
8-20-15 8 AM PTD 2191'; Running DST #1
8-21-15 8 AM RTD 2326'; Stop to log; Run DST #2
8-22-15 7 AM RTD 2326'; Run 8-logs; set 572'
cessing @ 2325'. PD @ 6:25 pm

LEGEND

Anhydrite Salt Sandstone Shale Carb sh Limestone Coal/Lime Chert Dolomite

SCALE " = 100'



DIAMOND TESTING

General Information Report

Company Name: RANGE OIL COMPANY, INC.
Contact: JOHN WASHBURN
Well Name: JACOBSON #2
Unique Well ID: DST #1, VIOLA, 2177-2191
Surface Location: SEC 31-19S-6E, CHASE CO. KS.
Field: PANTHER RANCH SW
Well Type: Vertical
Test Type: CONVENTIONAL
Formation: DST #1, VIOLA, 2177-2191
Well Fluid Type: O1 OIL

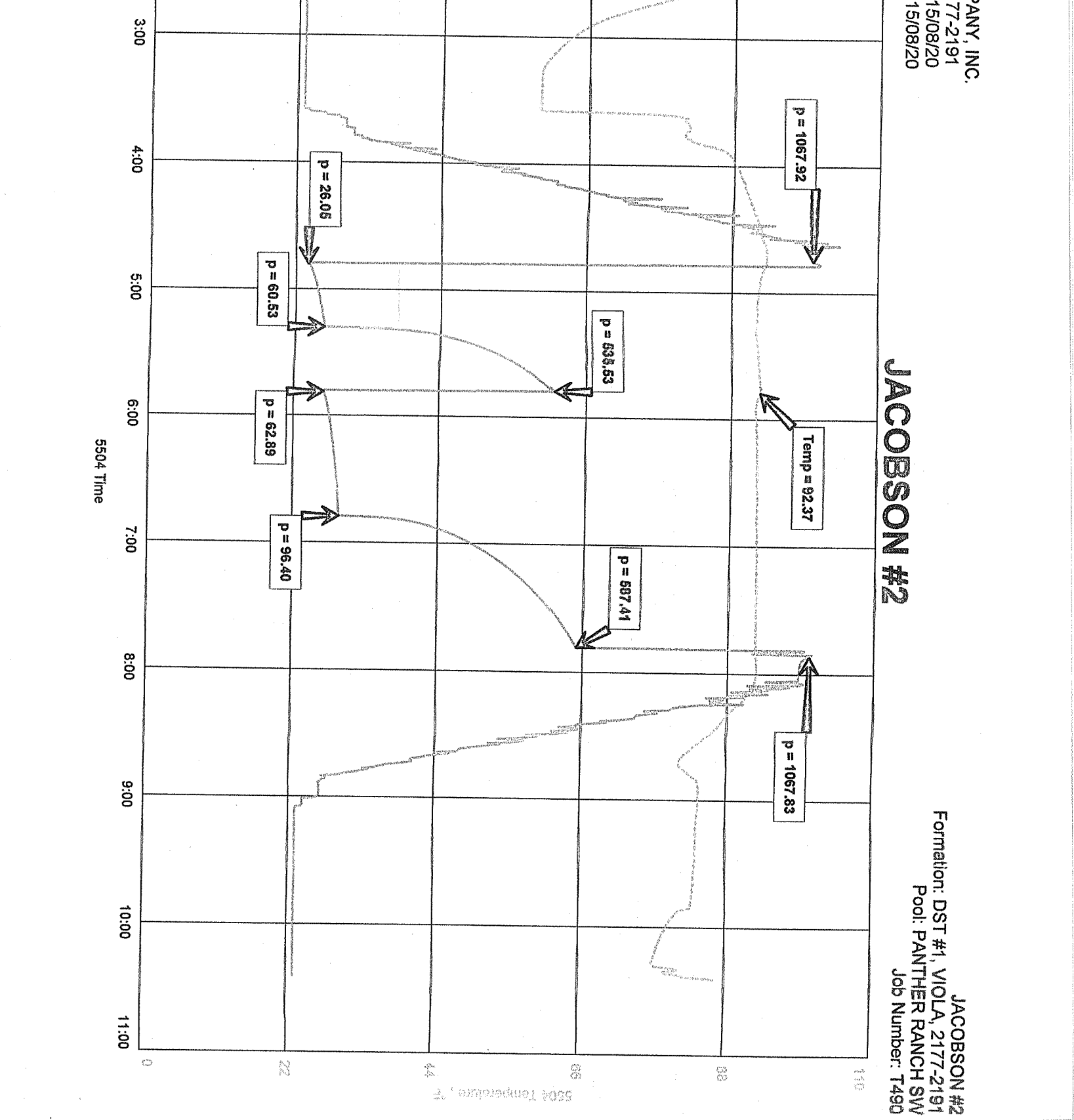
Start Test Date: 2015/08/20
Final Test Date: 2015/08/20

Representative: TIM VENTERS
Well Operator: RANGE OIL COMPANY, INC.
Report Date: 2015/08/20
Prepared By: TIM VENTERS
Qualified By: KEN WALLACE

Start Test Time: 02:38:00
Final Test Time: 10:25:00

RECOVERED: 160' CLEAN OIL, 100% OIL, GRAVITY: 28
30' OCM, 32% OIL, 68% MUD
180' TOTAL FLUID

TOOL SAMPLE: 35% OIL, 64% MUD



DIAMOND TESTING

General Information Report

Company Name: RANGE OIL COMPANY, INC.
Contact: JOHN WASHBURN
Well Name: JACOBSON #2
Unique Well ID: DST #2, VIOLA, 2189-2201
Surface Location: SEC 31-19S-6E, CHASE CO. KS.
Field: PANTHER RANCH SW
Well Type: Vertical
Test Type: CONVENTIONAL
Formation: DST #2, VIOLA, 2189-2201
Well Fluid Type: O1 OIL

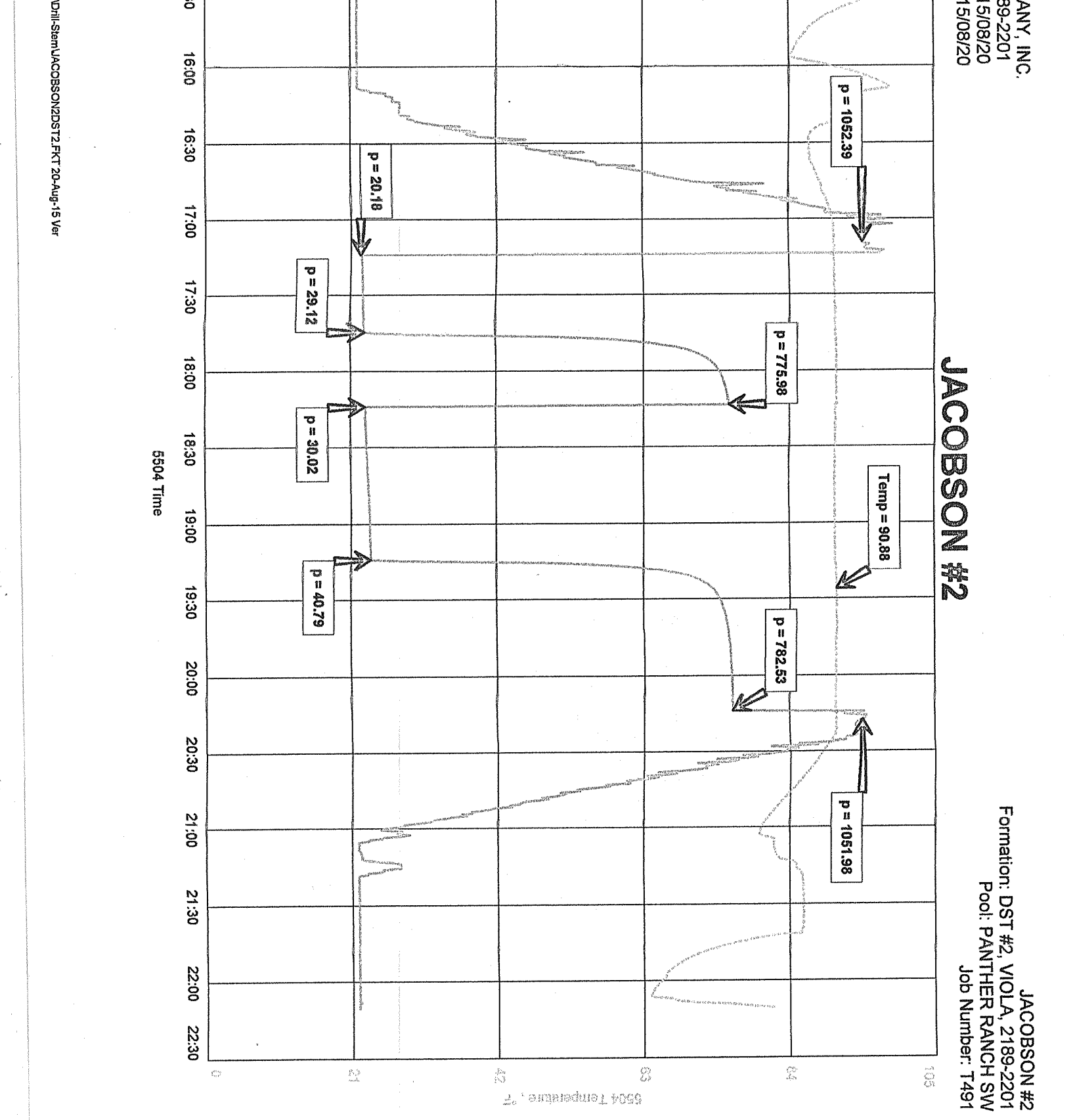
Start Test Date: 2015/08/20
Final Test Date: 2015/08/20

Representative: TIM VENTERS
Well Operator: RANGE OIL COMPANY, INC.
Report Date: 2015/08/20
Prepared By: TIM VENTERS
Qualified By: KEN WALLACE

Start Test Time: 15:21:00
Final Test Time: 22:11:00

RECOVERED: 15' CLEAN OIL, 100% OIL, GRAVITY: 28
30' HMCO, 65% OIL, 45% MUD
35' TOTAL FLUID

TOOL SAMPLE: 11% OIL, 89% MUD



810 E 7TH
 PO Box 92
 EUREKA, KS 67045
 (620) 583-5561



O P V

Cement or Acid Field Report
 Ticket No. **2292**
 Foreman Shannon Feck
 Camp Eureka

API# 15-017-20923

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
8-17-15	1034	Jacobson #2	31	19S	6E	Chase	KS
Customer <u>Range Oil Company Inc</u>			Unit #	Driver	Unit #	Driver	
Mailing Address <u>P.O. Box 781775</u>			105	Dave G			
City <u>Wichita</u> State <u>KS</u> Zip Code <u>67278</u>			110	Chris B			

Job Type Surface Hole Depth 211' Slurry Vol. _____ Tubing _____
 Casing Depth 201' G.L. Hole Size 12 1/4" Slurry Wt. _____ Drill Pipe _____
 Casing Size & Wt. 8 5/8" 28# Cement Left in Casing 15-20' Water Gal/SK _____ Other _____
 Displacement 12 Bbl Displacement PSI _____ Bump Plug to _____ BPM _____

Remarks: Safety meeting, rig up to 8 5/8" casing, break circulation & mixed 140 SKS class 'A' cement with 3% calcium & 1/4# Floseal/SK @ 14.5 15#. Displace w/ 12 Bbl H2O. 10 Bbl Slurry to pit.

THANKS Shannon
 & crew

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C101	1	Pump Charge	840.00	840.00
C107	50	Mileage	3.95	197.50
C200	140 SKS	Class A cement	15.00	2100.00
C205	395 #	Calcium @ 3%	.60	237.00
C209	35 #	Floseal @ 1/4#/SK	2.25	78.75
C108A	6.56 Ton	Ton mileage	n/c	345.00
C413	1	8 5/8" wooden plug	80.00	80.00
C506	2	8 5/8" centralizers	65.00	130.00
			Sub Total	4008.25
			7.50% Sales Tax	196.93
Authorization <u>Cotton</u> Title _____			Total	4205.18

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

810 E 7TH
 PO Box 92
 EUREKA, KS 67045
 (620) 583-5561



Cement or Acid Field Report
 Ticket No. 2464
 Foreman Kevin McCoy
 Camp EUREKA

APR 15-017-20923

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
8-21-15	1034	JACOBSON # 2	31	19S	6E	CHASE	KS
Customer			Unit #	Driver	Unit #	Driver	
RANGE OIL COMPANY, INC.			105	DAVE G.			
Mailing Address			113	CHRIS B.			
P.O. Box 781775			145	SHANNON F.			
City	State	Zip Code	Safety Meeting				
WICHITA	KS	67278	KM				
			DG				
			CB				
			ST				

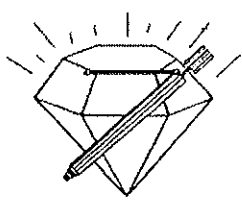
Job Type LONGSTRING Hole Depth 2326 Slurry Vol. 60 BBL Tubing _____
 Casing Depth 2325 Hole Size 7 7/8 Slurry Wt. 13.7* Drill Pipe _____
 Casing Size & Wt. 5 1/2" 14" Cement Left in Casing 7.45' Water Gal/SK 9.0 Other _____
 Displacement 58 BBL Displacement PSI 850 Bump Plug to 1350 PSI BPM _____

Remarks: Safety Meeting: Rig up to 5 1/2 Casing. BREAK CIRCULATION. Pump 5 BBL water 10 BBL Metasilicate Pre Flush, 5 BBL water SPACER. Mixed 175 SKS THICK Set Cement w/ 5" KOI-SEAL/ SK @ 13.7*/gal = 59 BBL Slurry. (Plug RAT Hole w/ 10 SKS Cement). WASH OUT Pump & Lines. Shut down. Release LATCH down Plug. Displace Plug to SEAT w/ 58 BBL Fresh water. FINAL Pumping Pressure 850 PSI. Bump Plug to 1350 PSI. wait 2 mins. Release Pressure. Float & Plug Held: Good CIRCULATION @ ALL times while Cementing. Job Complete. Rig down.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 102	1	Pump Charge	1050.00	1050.00
C 107	50	Mileage	3.95	197.50
C 201	185 SKS	THICK Set Cement	19.50	3607.50
C 207	925 #	KOI-SEAL 5" /SK	.45"	416.25
C 216	100 #	Metasilicate Pre Flush	2.00	200.00
C 108 B	10.17 TONS	Ton Mileage	1.35	686.48
C 113	6 HRS	80 BBL VAC TRUCK	85.00	510.00
C 224	3300 GALS	City water	10.00/1000	33.00
C 421	1	5 1/2 Latch down Plug	230.00	230.00
C 703	1	5 1/2 AFU INSERT FV	145.00	145.00
C 504	4	5 1/2 x 7 7/8 Centralizers	48.00	192.00
		THANK You		
		Sub TOTAL		7267.13
		Sales Tax 7.5%		361.78
		Total		7629.51

Authorization [Signature] Title _____

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.



DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
JACOBSON2DST1

Company Range Oil Company, Inc. Lease & Well No. Jacobson No. 2
Elevation 1468 KB Formation Viola Effective Pay Ft. Ticket No. T490
Date 8-20-15 Sec. 31 Twp. 19S Range 6E County Chase State Kansas
Test Approved By Kenneth C. Wallace Diamond Representative Tim Venters

Formation Test No. 1 Interval Tested from 2,177 ft. to 2,191 ft. Total Depth 2,191 ft.
Packer Depth 2,172 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 2,177 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft.

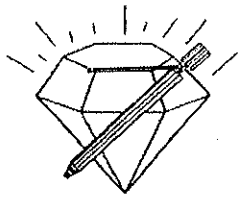
Top Recorder Depth (Inside) 2,158 ft. Recorder Number 5504 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 2,188 ft. Recorder Number 11029 Cap. 5,025 psi.
Below Straddle Recorder Depth ft. Recorder Number Cap. psi.

Drilling Contractor C & G Drilling Company - Rig 1 Drill Collar Length 178 ft I.D. 2 1/4 in.
Mud Type Chemical Viscosity 38 Weight Pipe Length ft I.D. in.
Weight 9.0 Water Loss 9.8 cc. Drill Pipe Length 1,966 ft I.D. 3 in.
Chlorides 1,160 P.P.M. Test Tool Length 33 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number 2 Anchor Length 14 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-FH in.

Blow: 1st Open: Weak, 1/2 in. blow increasing to 9 1/2 ins. No blow back during shut-in.
2nd Open: Weak, surface blow increasing to 7 1/2 ins. No blow back during shut-in.

Recovered 160 ft. of clean oil = .858240 bbls. (Grind out: 100%-oil) Gravity: 28 @ 60°
Recovered 30 ft. of oil cut mud = .147600 bbls. (Grind out: 32%-oil; 68%-mud)
Recovered 190 ft. of TOTAL FLUID = 1.005840 bbls.
Recovered ft. of
Recovered ft. of
Recovered ft. of
Remarks Tool Sample Grind Out: 36%-oil; 64%-mud

Time Set Packer(s) 4:47 A.M. Time Started off Bottom 7:47 A.M. Maximum Temperature 92°
Initial Hydrostatic Pressure.....(A) 1068 P.S.I.
Initial Flow Period.....Minutes 30 (B) 26 P.S.I. to (C) 61 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 536 P.S.I.
Final Flow Period.....Minutes 60 (E) 63 P.S.I. to (F) 96 P.S.I.
Final Closed In Period.....Minutes 60 (G) 587 P.S.I.
Final Hydrostatic Pressure.....(H) 1068 P.S.I.



DIAMOND TESTING, LLC
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (620) 653-7550 • (800) 542-7313
 JACOBSON2DST2

Company Range Oil Company, Inc. Lease & Well No. Jacobson No. 2
 Elevation 1468 KB Formation Viola Effective Pay _____ Ft. Ticket No. T491
 Date 8-20-15 Sec. 31 Twp. 19S Range 6E County Chase State Kansas
 Test Approved By Kenneth C. Wallace Diamond Representative Tim Venters

Formation Test No. 2 Interval Tested from 2,189 ft. to 2,201 ft. Total Depth 2,201 ft.
 Packer Depth 2,184 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
 Packer Depth 2,189 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
 Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 2,170 ft. Recorder Number 5504 Cap. 5,000 psi.
 Bottom Recorder Depth (Outside) 2,198 ft. Recorder Number 11029 Cap. 5,025 psi.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi.

Drilling Contractor C & G Drilling Company - Rig 1 Drill Collar Length 178 ft I.D. 2 1/4 in.
 Mud Type Chemical Viscosity 48 Weight Pipe Length _____ ft I.D. _____ in.
 Weight 9.3 Water Loss 9.4 cc. Drill Pipe Length 1,978 ft I.D. 3 in.
 Chlorides 1,080 P.P.M. Test Tool Length 33 ft Tool Size 3 1/2-IF in.
 Jars: Make Sterling Serial Number 2 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-FH in.

Blow: 1st Open: Weak, surface blow increasing to 3/4 in. No blow back during shut-in.
 2nd Open: Weak, surface blow increasing to 1/4 in. No blow back during shut-in.

Recovered 15 ft. of clean oil = .073800 bbls. (Grind out: 100%-oil) Gravity: 28 @ 60°
 Recovered 20 ft. of heavy mud cut oil = .098400 bbls. (Grind out: 55%-oil; 45%-mud)
 Recovered 35 ft. of TOTAL FLUID = .172200 bbls.
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks Tool Sample Grind Out: 11%-oil; 89%-mud

Time Set Packer(s) 5:14 P.M. Time Started off Bottom 8:14 P.M. Maximum Temperature 91°
 Initial Hydrostatic Pressure.....(A) 1052 P.S.I.
 Initial Flow Period.....Minutes 30 (B) 20 P.S.I. to (C) 29 P.S.I.
 Initial Closed In Period.....Minutes 30 (D) 776 P.S.I.
 Final Flow Period.....Minutes 60 (E) 30 P.S.I. to (F) 41 P.S.I.
 Final Closed In Period.....Minutes 60 (G) 783 P.S.I.
 Final Hydrostatic Pressure.....(H) 1052 P.S.I.