

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1265555
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

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: _____

1265555

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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)*

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)</i>			PRODUCTION INTERVAL: Top _____ Bottom _____	

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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GEOLOGIST'S REPORT

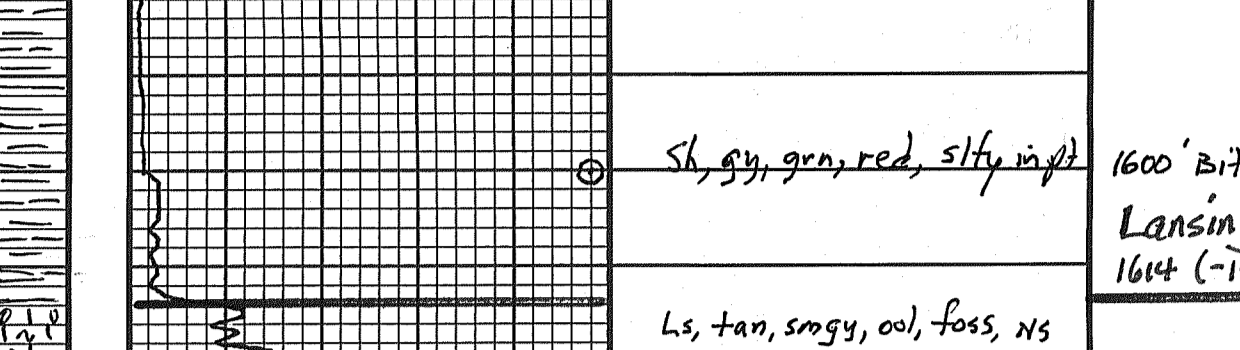
DRILLING TIME AND SAMPLE LOG

COMPANY: Range Oil Co., Inc.		ELEVATIONS: KB 1489	
LEASE: Madder B #1		FIELD: Panther Ranch SW	
LOCATION: 630' E 1/2 Sec 21, T19S, R19E, S1E		COUNTY: Chase, KS	
SEC: 21		STATE: KS	
CONTRACTOR: C&G Drilling Co., Inc.		MEASUREMENTS ARE ALL FROM KES	
RD: 8101/15		CASSING: 8 1/2" ID	
MUD UP: 1500'		TYPE MUD: Clean	
SAMPLES SAVED FROM: 1500' TO RTD		DRILLING TIME KEPT FROM: 1550' TO RTD	
SAMPLES EXAMINED FROM: 1550' TO RTD		GEOLOGICAL SUPERVISION FROM: 1600' TO RTD	
GEOLOGIST ON WELL: Ken Wallace		FORMATION TOPS: LOG	

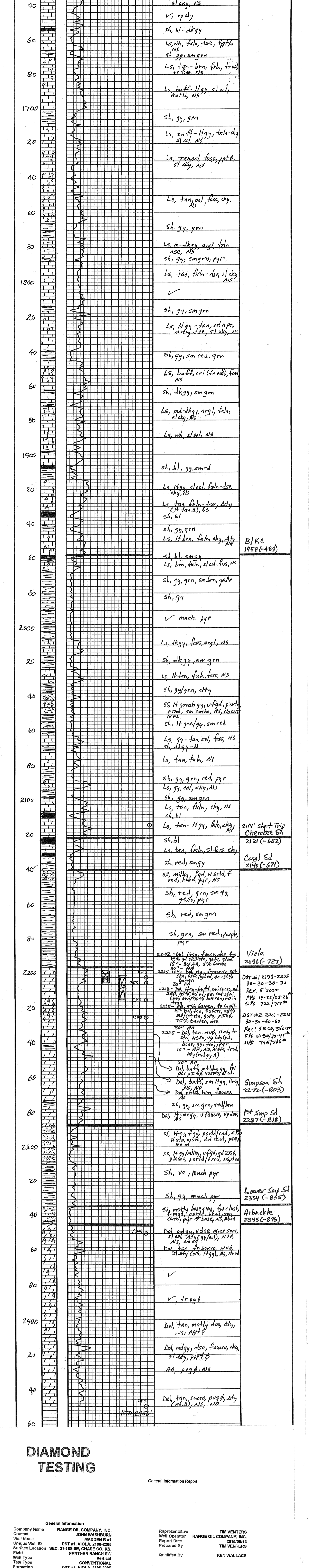
REMARKS: Prediction casing was set to further evaluate Viola.
 Ken Wallace

8-8-15 MERT
 8-11-15 7:55 am 1 1/2 hr bed: set 8 1/2" @ 209'; 1/2" @ 210-212'
 8-12-15 7:30 am d/d @ 2205'; 1/2" @ 2205' + 160'
 8-13-15 7:20 am P/D 2205'; pay for DST #1
 8-14-15 7:45 am d/d @ 2245'; Ran. DST #2
 8-15-15 RTD 2250'; Ran. c-legs; set 5.5" @ 2334'; 1/2" @ 2340 am

LEGEND



SCALE " = 100'



DIAMOND TESTING

General Information Report

General Information Company Name: RANGE OIL COMPANY, INC. Contact: JOHN WASHBURN Well Name: MADDEN B #1 Unique Well ID: DST #1, VIOLA, 2198-2205 Surface Location: SEC. 31-19S-6E, CHASE CO. KS Field: PANTHER RANCH SW Well Type: Vertical Test Type: CONVENTIONAL Formation: DST #1, VIOLA, 2198-2205 Well Fluid Type: OI Oil		Representative: TIM VENTERS Well Operator: RANGE OIL COMPANY, INC. Report Date: 2015/08/13 Prepared By: TIM VENTERS Qualified By: KEN WALLACE	
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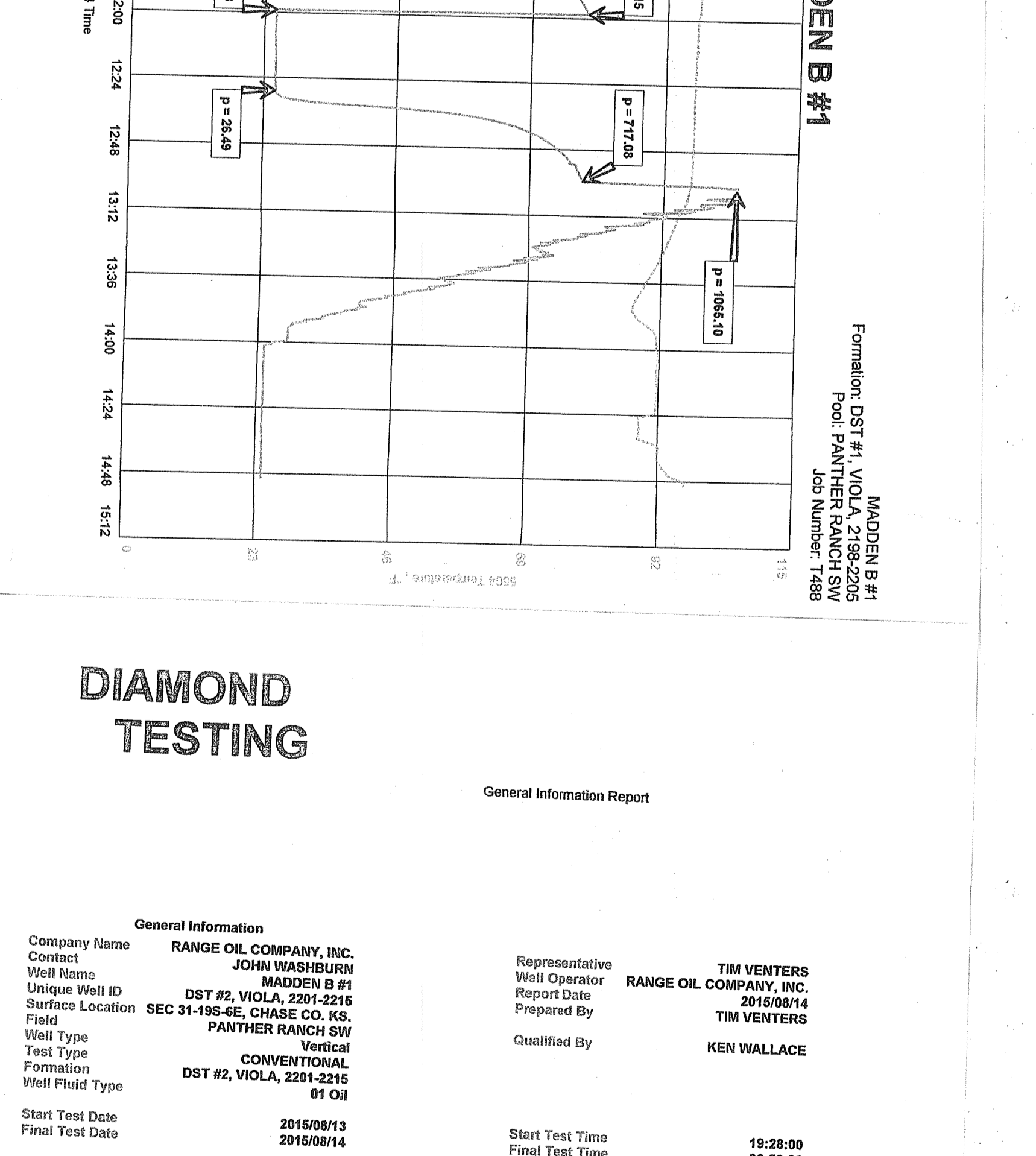
Start Test Date: 2015/08/13
 Final Test Date: 2015/08/13

Start Test Time: 08:58:00
 Final Test Time: 14:50:00

Test Recover:

RECOVERED: 5' OCM, 7% OIL, 93% MUD

TOOL SAMPLE: 4% OIL, 96% MUD



DIAMOND TESTING

General Information Report

General Information Company Name: RANGE OIL COMPANY, INC. Contact: JOHN WASHBURN Well Name: MADDEN B #1 Unique Well ID: DST #2, VIOLA, 2201-2215 Surface Location: SEC. 31-19S-6E, CHASE CO. KS Field: PANTHER RANCH SW Well Type: Vertical Test Type: CONVENTIONAL Formation: DST #2, VIOLA, 2201-2215 Well Fluid Type: OI Oil		Representative: TIM VENTERS Well Operator: RANGE OIL COMPANY, INC. Report Date: 2015/08/14 Prepared By: TIM VENTERS Qualified By: KEN WALLACE	
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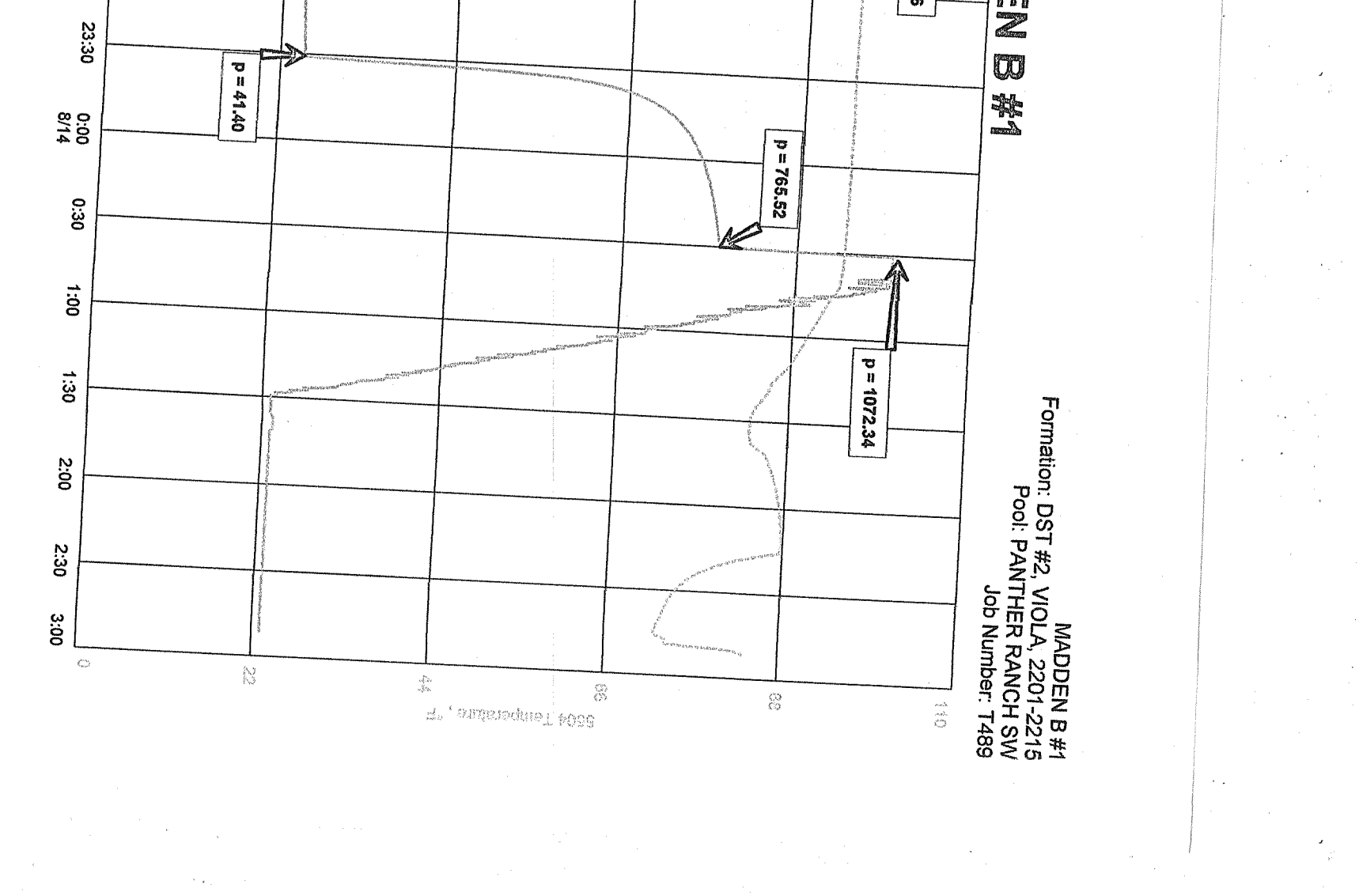
Start Test Date: 2015/08/13
 Final Test Date: 2015/08/14

Start Test Time: 19:28:00
 Final Test Time: 02:52:00

Test Recover:

RECOVERED: 5' SMCO, 91% OIL, 9% MUD, GRAVITY: 28
 89 OCM, 38% OIL, 65% MUD
 35' TOTAL FLUID

TOOL SAMPLE: 52% OIL, 48% MUD



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



Cement or Acid Field Report
 Ticket No. 2450
 Foreman Steve Mead
 Camp Eureka, KS

COPY

15-017-20934

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State	
8-10-15	1034	Madden B # 1	31	19s	6E	Chase	Ks	
Customer			Unit #		Driver		Unit #	Driver
Range Oil Company Inc			104		Alan M			
Mailing Address			113		Shannon F			
P.O. Box 781775								
City		State	Zip Code					
Wichita		Ks	67378					

Job Type Surface Hole Depth 210' Slurry Vol. _____ Tubing _____
 Casing Depth 200 GL Hole Size 12 1/4" Slurry Wt. _____ Drill Pipe _____
 Casing Size & Wt. 8 5/8 28" Cement Left in Casing 30' Water Gal/SK _____ Other _____
 Displacement 12 bbls Displacement PSI _____ Bump Plug to _____ BPM _____

Remarks: Safety Meeting: Rig up to 8 5/8 casing. Break circulation w/ 10 bbls Fresh water. Mix 140 sks Class A Cement w/ 3% Coalz, 1/4" Flo-Seal per 1 sk. Displace w/ 12 bbls Fresh water. Shut well in. Good Cement Returns 8 bbls to pit. Job Complete Rig down

Thank you

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
C203	395 #	3% Coalz	.60	237.00
C209	35 #	1/4" Flo Seal	2.25	78.75
C108A	6.58 Ten	Ten Mileage Bulk Truck	M/L	345.00
C413	1	8 5/8 Wooden Plug	80.00	80.00
C506	2	8 5/8 Centralizer	65.00	130.00
			Sub Total	4008.25
			7.50 % Sales Tax	196.93

Authorization Witness by Cotton Gulick Title Tool pusher 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. **2461**
 Foreman *Kevin McCoy*
 Camp *EUREKA*

API # 15-017-10924

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
8-15-15	1034	Madden B #1	31	195	6E	CHASE	Ks
Customer <i>RANGE OIL COMPANY INC.</i>			Safety Meeting KM DG AM SM	Unit #	Driver	Unit #	Driver
Mailing Address <i>P.O. Box 781775</i>				105	<i>DAVE G.</i>		
City <i>WICHITA</i>			State <i>Ks</i>	Zip Code <i>67278</i>			
				113	<i>STEVE M.</i>		
				141	<i>ALAN M.</i>		

Job Type Longstring Hole Depth 2450 KB Slurry Vol. 63 BBL Tubing _____
 Casing Depth 2335 Hole Size 7 7/8" Slurry Wt. 13.7 # Drill Pipe _____
 Casing Size & Wt. 5 1/2 14 # Cement Left in Casing 3.35' Water Gal/SK 9 Other _____
 Displacement 58 BBL Displacement PSI 750 Bump Plug to 1250 PSI BPM 5 BPM

Remarks: *Safety Meeting: Rig up to 5 1/2 casing. Drop trip BALL. Set Packer shoe @ 1150 PSI. Pump 5 BBL water, 10 BBL Metasilicate Pre Flush, 5 BBL water spacer. Mixed 190 SKS THICK Set Cement w/ 5 # Kol-Seal /SK @ 13.7 #/gal, yield 1.85 = 63 BBL slurry. wash out Pump & Lines. Shut down. Release Latch down Plug. Displace Plug to Seat w/ 58 BBL Fresh WATER. FINAL Pumping Pressure 750 PSI. Bump Plug to 1250 PSI. Wait 2 mins. Release Pressure. FLOAT & Plug Hold. Good CIRCULATION @ ALL times while Cementing. Job Complete. Rig down.*

Note: *Plugged RAT Hole while washing up.*

Centralizers on #1,3,5,7,9 BASKET on #11 MARKER JOINT

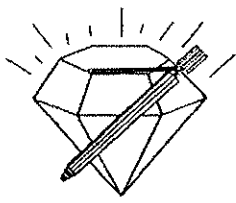
Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 102	1	Pump Charge	1050.00	1050.00
C 107	50	Mileage	3.95	197.50
C 201	190 SKS	THICK Set Cement	19.50	3705.00
C 207	950 #	KOL-SEAL 5 #/SK	.45 #	427.50
C 216	100 #	Metasilicate Pre Flush	2.00 #	200.00
C 108 B	10.45 TONS	Ton Mileage	1.35	705.38
C 113	5 HRS	80 BBL VAC TRUCK	85.00	425.00
C 224	3300 gals	city water	10.00/1000	33.00
C 752	1	5 1/2 Type "A" Packer Shoe	1400.00	1400.00
C 604	1	5 1/2 Cement BASKET	225.00	225.00
C 681	1	5 1/2 FLOAT COLLAR Body only	225.00	225.00
C 421	1	5 1/2 LATCH DOWN Plug	230.00	230.00
C 504	5	5 1/2 x 7 7/8 CENTRALIZERS	48.00	240.00
<i>THANK YOU</i>			Sub TOTAL	9063.38
			7.5% Sales Tax	501.41
			Total	9564.79

Authorization *Darryl Reed*

Title _____

Total

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
MADDENB1DST1

Company Range Oil Company, Inc. Lease & Well No. Madden "B" No. 1
Elevation 1469 KB Formation Viola Effective Pay Ft. Ticket No. T488
Date 8-13-15 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 2,198 ft. to 2,205 ft. Total Depth 2,205 ft.
Packer Depth 2,193 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 2,198 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft.

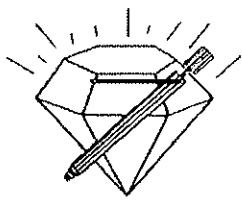
Top Recorder Depth (Inside) 2,179 ft. Recorder Number 5504 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 2,202 ft. Recorder Number 11029 Cap. 5,025 psi.
Below Straddle Recorder Depth ft. Recorder Number Cap. psi.

Drilling Contractor C & G Drilling Company - Rig 1 Drill Collar Length 178 ft. I.D. 2 1/4 in.
Mud Type Chemical Viscosity 53 Weight Pipe Length ft. I.D. in.
Weight 9.3 Water Loss 9.2 cc. Drill Pipe Length 1,987 ft. I.D. 3 in.
Chlorides 1,350 P.P.M. Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number 2 Anchor Length 7 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: Very weak, surface blow lasting 7 mins. No blow back during shut-in.
2nd Open: No blow. No blow back during shut-in.

Recovered 5 ft. of slightly oil cut mud = .024600 bbls. (Grind out: 7%-oil; 93%-mud)
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Remarks Tool Sample Grind Out: 4%-oil; 96%-mud

Time Set Packer(s) 10:58 A.M. Time Started off Bottom 12:58 P.M. Maximum Temperature 98°
Initial Hydrostatic Pressure.....(A) 1072 P.S.I.
Initial Flow Period.....Minutes 30 (B) 19 P.S.I. to (C) 25 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 722 P.S.I.
Final Flow Period.....Minutes 30 (E) 25 P.S.I. to (F) 26 P.S.I.
Final Closed In Period.....Minutes 30 (G) 717 P.S.I.
Final Hydrostatic Pressure.....(H) 1065 P.S.I.



DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
MADDENB1DST2

Company Range Oil Company, Inc. Lease & Well No. Madden "B" No. 1
Elevation 1469 KB Formation Viola Effective Pay Ft. Ticket No. T489
Date 8-13-15 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 2,201 ft. to 2,215 ft. Total Depth 2,215 ft.
Packer Depth 2,196 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 2,201 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 2,182 ft. Recorder Number 5504 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 2,212 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 53 Weight Pipe Length ft I.D. in.
Weight 9.3 Water Loss 9.2 cc. Drill Pipe Length 1,990 ft I.D. 3 in.
Chlorides 1,350 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, surface blow increasing to 1/2 in. No blow back during shut-in.

2nd Open: Very weak, surface blow increasing to 1/4 in. No blow back during shut-in.

Recovered 5 ft. of slightly mud cut oil = .024600 bbls. (Grind out: 91%-oil; 9%-mud) Gravity: 28

Recovered 30 ft. of oil cut mud = .147600 bbls. (Grind out: 35%-oil; 65%-mud)

Recovered 35 ft. of TOTAL FLUID = .172200 bbls.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 52%-oil; 48%-mud

Time Set Packer(s) 9:30 P.M. Time Started off Bottom 12:30 A.M. Maximum Temperature 95°
Initial Hydrostatic Pressure.....(A) 1076 P.S.I.
Initial Flow Period.....Minutes 30 (B) 22 P.S.I. to (C) 30 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 745 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) 766 P.S.I.
Final Hydrostatic Pressure.....(H) 1072 P.S.I.