

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1244636
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
-----------------------------------	-----------------	---

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: _____

1244636

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			
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)*

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: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift 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 type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	---	---

QUALITY WELL SERVICE, INC.

6279

Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

Office 620-727-3410
Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	12-09-14	Sec.	26	Twp.	25s	Range	16w	County	Edwards	State	KS	On Location	1:30Am	Finish	845Am
Lease	Mantey	Well No.	1-26		Location		Byers KS, 1/4 N, 7w								
Contractor	Ninnescah				Owner		Tuka Carmi Development LLC								
Type Job	Surface				To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.										
Hole Size	12 1/4		T.D.		459		Charge To								
Csg.	8 5/8		Depth		457		Tuka Carmi								
Tbg. Size			Depth				Street								
Tool			Depth				City State								
Cement Left in Csg.	20'		Shoe Joint		nh		The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line			Displace		27 1/2 BBLs Fresh		Cement Amount Ordered 385 5x60:40:2%gel+3%								
EQUIPMENT							cc + 1/4 #Flowseal \$/ 100s x A + 3%cc								
Pumptrk	8	No.	David B				Common 335								
Bulktrk	7	No.	Mike B				Poz. Mix 150								
Bulktrk		No.					Gel. 7								
Pickup		No.	David F				Calcium 15								
JOB SERVICES & REMARKS							Hulls								
Rat Hole							Salt								
Mouse Hole							Flowseal 87.50								
Centralizers							Kol-Seal								
Baskets							Mud CLR 48								
D/V or Port Collar							CFL-117 or CD110 CAF 38								
Pipe on Btm, Break Circ, Pump Spacer							Sand								
mix 385 5x 60:40 cement Blend, Stop-							Handling 507								
Release Plug, Start Disp. w/ Fresh H?							Mileage 30								
see increase in PSI, slow rate, Stop							FLOAT EQUIPMENT								
Pump at 27 1/2 BBLs Disp, Shut in							Guide Shoe								
Cement Did not Circ, Run 60' 1"							Centralizer								
Mixed 100s x A + 3%cc cement Did							Baskets								
top off							AFU Inserts								
							Float Shoe								
							Latch Down -1- Wooden Cup Plug -8 5/8								
							LMV 30								
							Service Supervisor								
							Pumptrk Charge Surface								
							Mileage 30 X 2								
							Tax								
							Discount								
							Total Charge								
X	Signature		Richard A. Brady												

QUALITY WELL SERVICE, INC.

6283

Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

Office 620-727-3410

Fax 620-672-3663

Rich's Cell 620-727-3409

Brady's Cell 620-727-6964

Date	12-19-14	Sec.	26	Twp.	25s	Range	16w	County	Edwards	State	KS	On Location	12:00AM	Finish	3:15PM
Lease	Montey	Well No.	1-26		Location 281 & Antaim Rd, w to End of Blk top, 1/2 mi										
Contractor	Ninnescah				Owner Tuka-Coxmi Development										
Type Job	Production				To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.										
Hole Size	7 7/8		T.D.		4760										
Csg.	5 1/2		Depth		4758'										
Tbg. Size			Depth												
Tool			Depth												
Cement Left in Csg.	36'		Shoe Joint		35.55										
Meas Line			Displace		113 1/2 BBLs 2% KCl Water										
EQUIPMENT											Cement Amount Ordered 245 sx Pro "C" Blend + 10% Sol + 5" Kolseal + 1/4" Fluseal & 500 gal Mud Flush & 11 gal				
Pumptrk	8	No.	Mike B		Common										
Bulktrk	9	No.	David B		Poz. Mix										
Bulktrk		No.			Gel.										
Pickup		No.	David F		Calcium										
JOB SERVICES & REMARKS											Hulls				
Rat Hole	30sy				Salt										
Mouse Hole	20sy				Flowseal										
Centralizers	8 - 1-3-5-7-11-21-27				Kol-Seal										
Baskets	1 - Riding on 13				Mud CLR 48										
D/V or Port Collar					CFL-117 or CD110 CAF 38										
Pipe on Bttm, Break Circ, Pump Pac flush, Plug Rat & Mouse Holes w/ 50 sy, Mix 195 sy Pro C Blend, stop Pump - wash up Pump, Release Plug, Start Disp. w/ 2% KCl water, Slow to 5 BPM at 70 BBLs, See Lift + PSI, Slow Rate at 105 to 3 BPM, Bump Plug at 113 1/2 BBLs total Disp, latch in at 900# to 1400#, release PSI, Floats Did Hold,											Sand				
											Handling				
											Mileage				
											FLOAT EQUIPMENT				
											Guide Shoe				
											Centralizer 8 - 5 1/2				
											Baskets 1 - 5 1/2				
											AFU Inserts 1 - Latch do				
											Float Shoe 1 - 5 1/2				
											Latch Down 1 - 5 1/2				
											Pumptrk Charge				
											Mileage				
											Tax				
											Discount				
											Total Charge				
Signature <i>[Signature]</i>															

LOG-TECH OF KANSAS, INC.

P.O. BOX 885
GREAT BEND, KANSAS 67530
(620) 792-2167

INVOICE

8321

Date 12-23-2014

CHARGE TO: Iuka - Carmi Development, LLC.
 ADDRESS _____
 R/A SOURCE NO. _____ CUSTOMER ORDER NO. _____
 LEASE AND WELL NO. Mantey #1-26 FIELD Wil
 NEAREST TOWN Wacksville COUNTY Edwards STATE K.S.
 SPOT LOCATION 330' ENL 1450' FEL SEC. 26 TWP. 25S RANGE 16W
 ZERO 17' AGL CASING SIZE 5 1/2 WEIGHT _____
 CUSTOMER'S T.D. 4720' LTD LOG TECH #53 FLUID LEVEL Full
 ENGINEER Lance Gregg OPERATOR J. Welcher

PERFORATING				
Description	No. Shots	Depth		Amount
		From	To	
<u>Titan (4039-7237)</u>	<u>41</u>	<u>4386</u>	<u>4406</u>	
				<u>3610⁰⁰</u>

DEPTH AND OPERATIONS CHARGES						
Description	From	Depth		Total No. Ft.	Price Per Ft.	Amount
			To			
<u>Run GR/CCL/CBL</u>	<u>0</u>	<u>4720</u>	<u>4720</u>	<u>31</u>	<u>1463</u>	<u>20</u>
<u>Log</u>	<u>4720</u>	<u>2770</u>	<u>Min</u>	<u>.29</u>	<u>580</u>	<u>00</u>

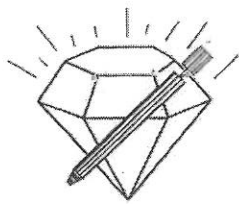
MISCELLANEOUS		
Description	Quantity	Amount
<u>Service Charge</u>	<u>1</u>	<u>550⁰⁰</u>

PRICES SUBJECT TO CORRECTION BY BILLING DEPARTMENT

RECEIVED THE ABOVE SERVICES ACCORDING TO THE TERMS AND CONDITIONS SPECIFIED ON THE REVERSE SIDE TO WHICH WE HEREBY AGREE.

Sub Total	<u>46203²⁰</u>
Code Ref. Tool Insurance	
Tax	
	<u>5272⁰⁰</u>

Customer Signature _____ Date 12-31-14



DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
Mantey1DST1

Company Iuka-Carmi Development, LLC Lease & Well No. Mantey No. 1-26
Elevation 2064 KB Formation Lansing "A - B" Effective Pay _____ Ft. Ticket No. F362
Date 12-13-14 Sec. 26 Twp. 25S Range 16W County Edwards State Kansas
Test Approved By Steve Petermann Diamond Representative Jake Fahrenbruch

Formation Test No. 1 Interval Tested from 3,869 ft. to 3,913 ft. Total Depth 3,913 ft.
Packer Depth 3,864 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 3,869 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 3,855 ft. Recorder Number 5951 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 3,873 ft. Recorder Number 5584 Cap. 5,000 psi.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi.

Drilling Contractor Ninnescah Drilling, LLC - Rig 101 Drill Collar Length _____ ft I.D. _____ in.
Mud Type Chemical Viscosity 56 Weight Pipe Length _____ ft I.D. _____ in.
Weight 9.1 Water Loss 8.8 cc. Drill Pipe Length 3,844 ft I.D. 3 1/2 in.
Chlorides 4,000 P.P.M. Test Tool Length 25 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number Not Run Anchor Length 10' perf. w/ 34' 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: Strong blow increasing. Off bottom of bucket in 2 mins. No blow back during shut-in.

2nd Open: Strong blow increasing. Off bottom of bucket in 2 1/2 mins. Strong, 11 in. blow back during shut-in.

Recovered 920 ft. of gas in pipe
Recovered 90 ft. of heavy gas cut, oily, watery, mud = 1.280700 bbls. (Grind out: 25%-gas; 20%-oil; 25%-water; 30%-mud)
Recovered 120 ft. of gas & mud cut, oily water = 1.707600 bbls. (Grind out: 10%-gas; 25%-oil; 50%-water; 15%-mud)
Recovered 140 ft. of slightly oil & mud cut water = 1.992200 bbls. (Grind out: 3%-oil; 87%-water; 10%-mud) Chlorides: 97,000 Ppm PH: 7.0 RW: .10 @ 56°
Recovered 350 ft. of TOTAL FLUID = 4.980500 bbls.
Recovered _____ ft. of _____

Remarks _____

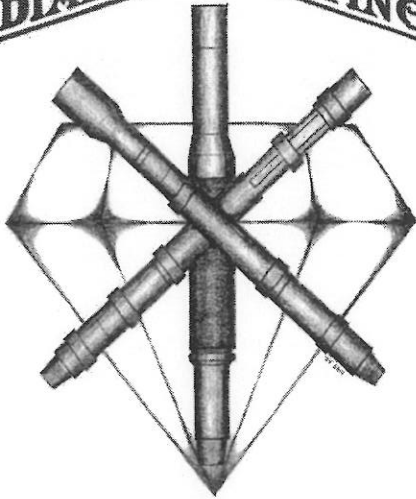
Time Set Packer(s) 8:00 P.M. Time Started off Bottom 10:45 P.M. Maximum Temperature 121°
Initial Hydrostatic Pressure.....(A) 1871 P.S.I.
Initial Flow Period.....Minutes 15 (B) 29 P.S.I. to (C) 62 P.S.I.
Initial Closed In Period.....Minutes 45 (D) 1142 P.S.I.
Final Flow Period.....Minutes 45 (E) 73 P.S.I. to (F) 153 P.S.I.
Final Closed In Period.....Minutes 60 (G) 1102 P.S.I.
Final Hydrostatic Pressure.....(H) 1867 P.S.I.

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

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

DIAMOND TESTING



TEST INFORMATION

Well Name	Mantey #1-26
Company Name	Iuka-Carmi Development, LLC
Formation	DST #1 Lansing "A-B" 3869'-3913'
Test Type	Bottom-Hole DST w/shale packer
Surface Location	Sec 26-25s-16w-Edwards Co.-KS
KB Elevation (SL)	2064.000
Gauge Name	Inside 5951
Start Test Date	2014/12/13
Start Test Time	18:07:00
Final Test Date	2014/12/14
Final Test Time	01:13:00
Job Number	F362
Contact	Kenny Gates
Site Contact	Steve Petermann

TEST RESULTS

Initial flow, strong blow, increased to BOB in 2 minutes. No blowback.
Final flow, strong blow, increased to BOB in 2.5 minutes. Blowback @ 11".

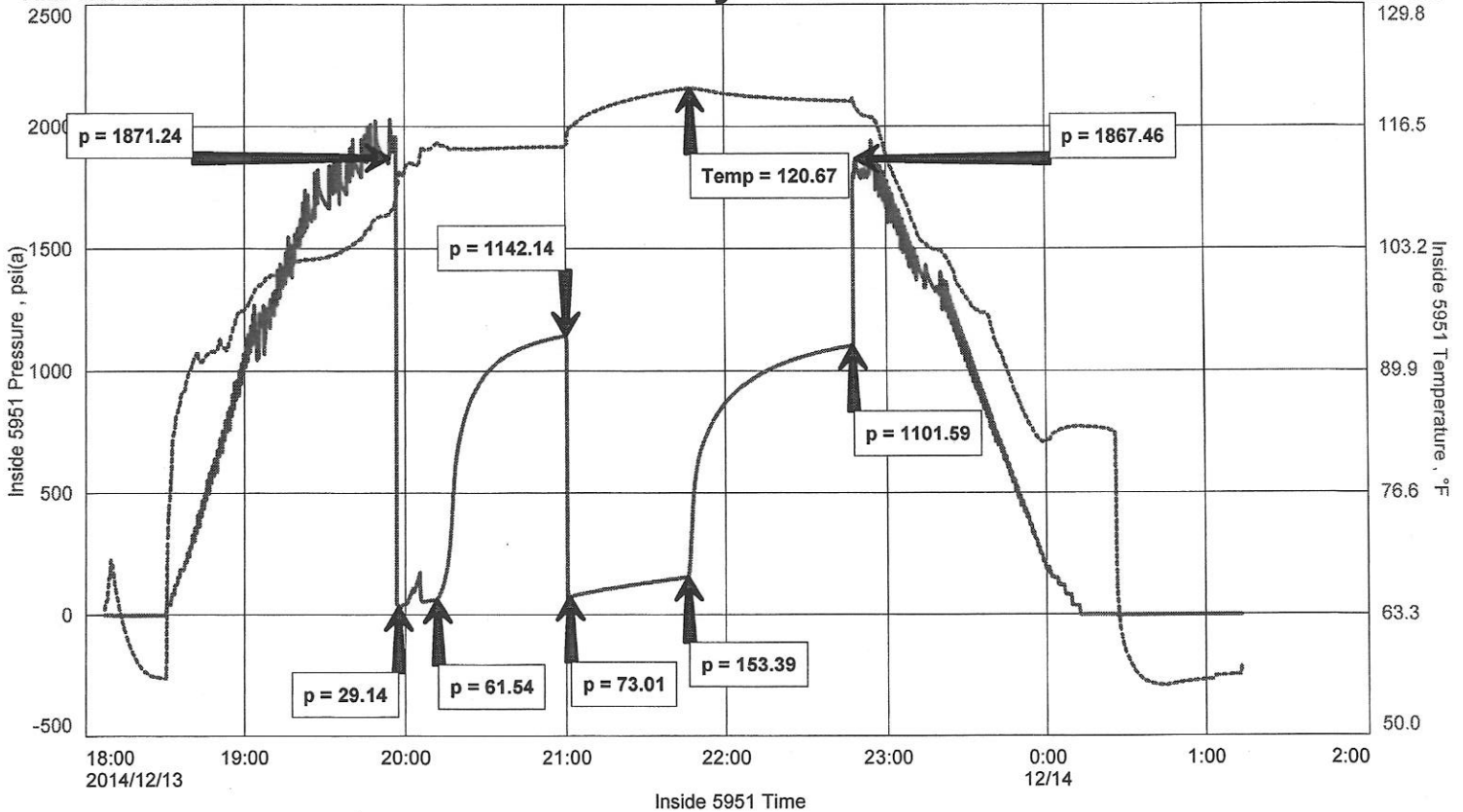
TOTAL RECOVERED FLUID: 350'

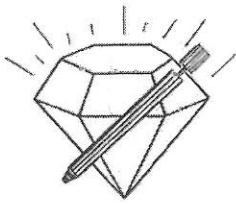
90'	HGC OWM	25% gas, 20% oil, 25% wtr, 30% mud
120'	G&MC OW	10% gas, 25% oil, 50% wtr, 15% mud
140'	SO&MCW	3% oil, 87% wtr, 10% mud
-----	920' GAS IN PIPE	
-----	Chlorides: 97,000 PPM	----- RW: .10 ohm @ 56 F ----- PH: 7.0

Iuka-Carmi Development, LLC
DST #1, Lansing "A-B" 3869'-3913'
Start Test Date: 2014/12/13
Final Test Date: 2014/12/14

Mantey #1-26
Formation: DST #1, Lansing "A-B" 3869'-3913'
Pool: Infield
Job Number: F362

Mantey #1-26





DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
Mantey1DST2

Company Iuka-Carmi Development, LLC Lease & Well No. Mantey No. 1-26
Elevation 2064 KB Formation Cherokee Effective Pay _____ Ft. Ticket No. F363
Date 12-15-14 Sec. 26 Twp. 25S Range 16W County Edwards State Kansas
Test Approved By Steve Petermann Diamond Representative Jake Fahrenbruch

Formation Test No. 2 Interval Tested from 4,317 ft. to 4,340 ft. Total Depth 4,340 ft.
Packer Depth 4,312 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 4,317 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 4,303 ft. Recorder Number 5951 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 4,318 ft. Recorder Number 5584 Cap. 5,000 psi.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi.

Drilling Contractor Ninnescah Drilling, LLC - Rig 101 Drill Collar Length _____ ft I.D. _____ in.
Mud Type Chemical Viscosity 48 Weight Pipe Length _____ ft I.D. _____ in.
Weight 9.4 Water Loss 9.2 cc. Drill Pipe Length 4,269 ft I.D. 3 1/2 in.
Chlorides 3,600 P.P.M. Test Tool Length 25 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number Not Run Anchor Length 23 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 blow increasing to 3/4 in. No blow back during shut-in.
2nd Open: Surface blow that died. No blow back during shut-in.

Recovered 10 ft. of watery mud = .142300 bbls. (Grind out: 50%-water; 50%-mud) Chlorides: 22,000 Ppm PH: 7.0 RW: .54 @ 40°
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks _____

Time Set Packer(s) 10:20 A.M. Time Started off Bottom 1:05 P.M. Maximum Temperature 123°
Initial Hydrostatic Pressure.....(A) 2141 P.S.I.
Initial Flow Period.....Minutes 15 (B) 9 P.S.I. to (C) 13 P.S.I.
Initial Closed In Period.....Minutes 45 (D) 106 P.S.I.
Final Flow Period.....Minutes 45 (E) 16 P.S.I. to (F) 22 P.S.I.
Final Closed In Period.....Minutes 60 (G) 105 P.S.I.
Final Hydrostatic Pressure.....(H) 2125 P.S.I.

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

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



TEST INFORMATION

Well Name	Mantey #1-26
Company Name	Iuka-Carmi Development LLC
Formation	DST #2 Cherokee 4317'-4340'
Test Type	Bottom-Hole DST w/shale packer
Surface Location	Sec 26-25s-16w-Edwards Co.-KS
KB Elevation (SL)	2064.000
Gauge Name	Inside 5951
Start Test Date	2014/12/15
Start Test Time	07:41:00
Final Test Date	2014/12/15
Final Test Time	15:31:00
Job Number	F363
Contact	Kenny Gates
Site Contact	Steve Petermann

TEST RESULTS

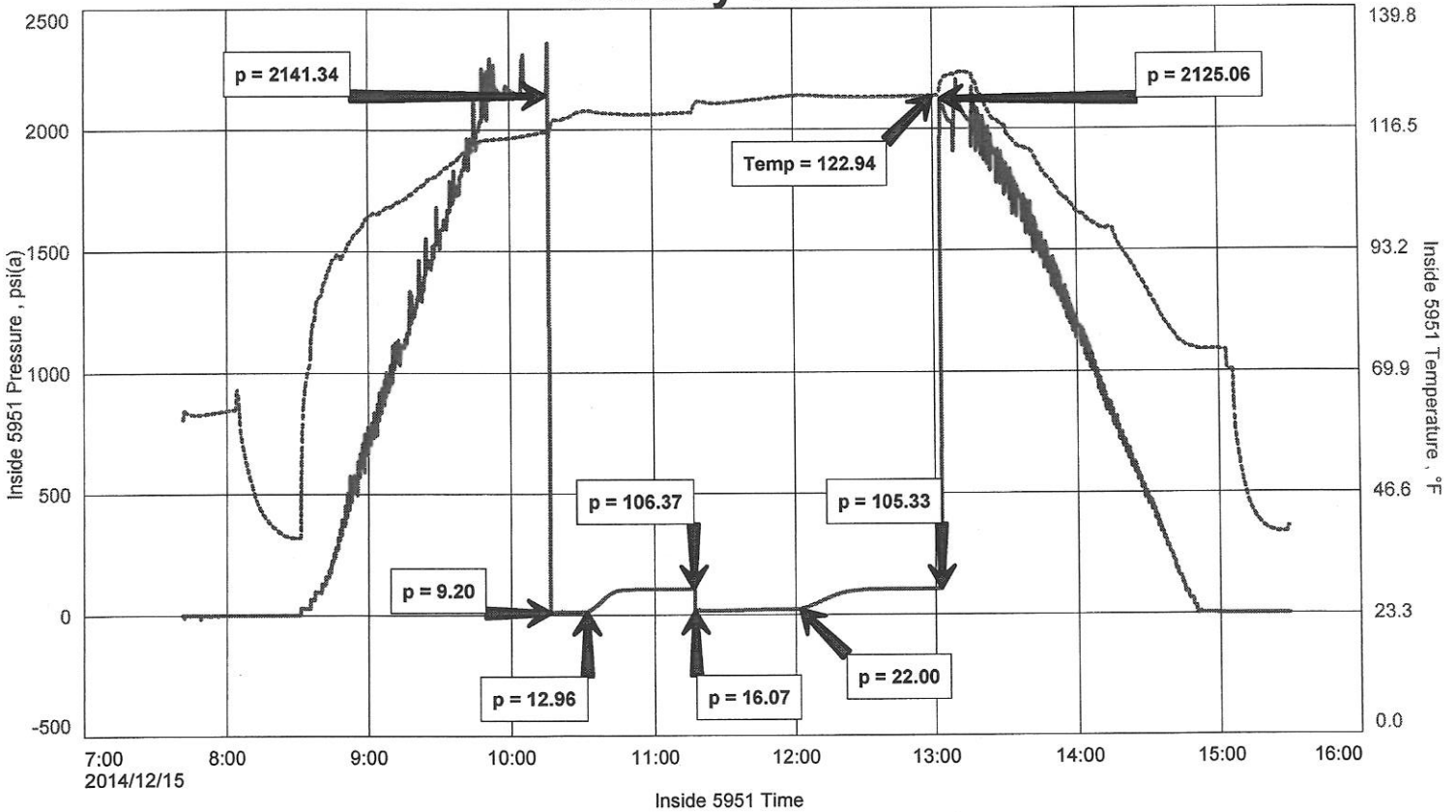
Initial flow, weak blow, increased to .75".
Final flow, surface blow, died.

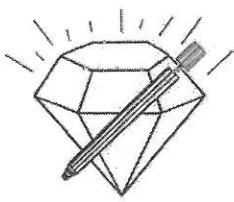
Recovered 10' of watery mud, 50% wtr, 50% mud
Chlorides: 22,000 PPM
RW: .54 ohm @ 40 F
PH: 7.0

Iuka-Carmi Development, LLC
DST #2 Cherokee 4317'-4340'
Start Test Date: 2014/12/15
Final Test Date: 2014/12/15

Mantey #1-26
Formation: DST #2 Cherokee 4317'-4340'
Pool: Infield
Job Number: F363

Mantey #1-26





DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
Mantey1DST3

Company Iuka-Carmi Development, LLC Lease & Well No. Mantey No. 1-26
Elevation 2064 KB Formation Conglomerate Effective Pay _____ Ft. Ticket No. F364
Date 12-16-14 Sec. 26 Twp. 25S Range 16W County Edwards State Kansas
Test Approved By Steve Petermann Diamond Representative Jake Fahrenbruch

Formation Test No. 3 Interval Tested from 4,344 ft. to 4,381 ft. Total Depth 4,381 ft.
Packer Depth 4,339 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 4,344 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 4,330 ft. Recorder Number 5951 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 4,345 ft. Recorder Number 5584 Cap. 5,000 psi.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi.

Drilling Contractor Ninnescah Drilling, LLC - Rig 101 Drill Collar Length _____ ft I.D. _____ in.
Mud Type Chemical Viscosity 48 Weight Pipe Length _____ ft I.D. _____ in.
Weight 9.4 Water Loss 9.2 cc. Drill Pipe Length 4,319 ft I.D. 3 1/2 in.
Chlorides 3,600 P.P.M. Test Tool Length 25 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number Not Run Anchor Length 37 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.

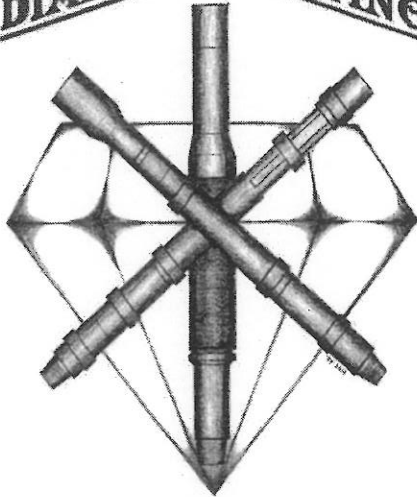
Blow: 1st Open: Strong blow increasing. Off bottom of bucket in 15 secs. No gas to surface. Bottom of bucket blow back during shut-in.
2nd Open: Fair blow increasing. Off bottom of bucket in 3 1/2 mins. No gas to surface. Bottom of bucket blow back during shut-in.

Recovered 2,600 ft. of gas in pipe
Recovered 750 ft. of clean oil = 10.672500 bbls. (Grind out: 100%-oil) Gravity: 36.75 @ 60°
Recovered 60 ft. of gas, water and mud cut oil = .853800 bbls. (Grind out: 20%-gas; 40%-oil; 20%-water; 20%-mud)
Recovered 90 ft. of water = 1.280700 bbls. (Grind out: 100%-water) Chlorides: 124,000 Ppm PH: 7.5 RW: .08 @ 60°
Recovered 900 ft. of TOTAL FLUID = 12.807000 bbls.
Recovered _____ ft. of _____

Remarks _____

Time Set Packer(s) 2:06 A.M. Time Started off Bottom 4:31 A.M. Maximum Temperature 132°
Initial Hydrostatic Pressure.....(A) 2199 P.S.I.
Initial Flow Period.....Minutes 10 (B) 347 P.S.I. to (C) 370 P.S.I.
Initial Closed In Period.....Minutes 45 (D) 374 P.S.I.
Final Flow Period.....Minutes 30 (E) 370 P.S.I. to (F) 374 P.S.I.
Final Closed In Period.....Minutes 60 (G) 389 P.S.I.
Final Hydrostatic Pressure.....(H) 2198 P.S.I.

DIAMOND TESTING



DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

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

TEST INFORMATION

Well Name	Mantey #1-26
Company Name	Iuka-Carmi Development LLC
Formation	DST #3 Conglomerate 4344'-4381'
Test Type	Bottom-Hole w/shale packer
Surface Location	Sec 26-25s-16w-Edwards Co.-KS
KB Elevation (SL)	2064.000
Gauge Name	Outside 5584
Start Test Date	2014/12/15
Start Test Time	23:46:00
Final Test Date	2014/12/16
Final Test Time	07:40:00
Job Number	F364
Contact	Kenny Gates
Site Contact	Steve Petermann

TEST RESULTS

Initial flow, strong blow, increased to BOB in 15 seconds. No GTS. Blowback increased to BOB.
 Final flow, fair blow, increased to BOB in 3.5 minutes. No GTS. Blowback increased to BOB.

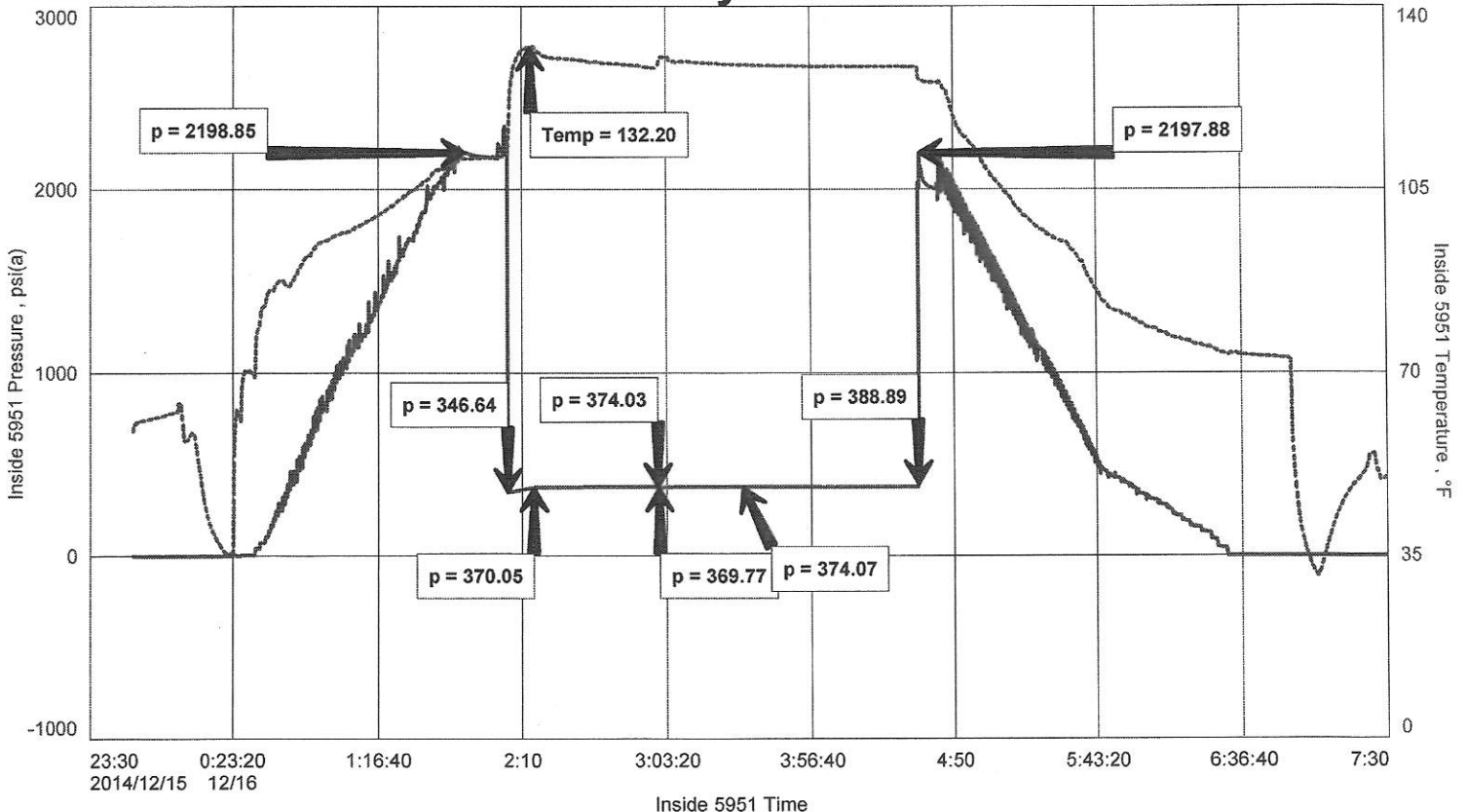
TOTAL RECOVERED FLUID: 900'

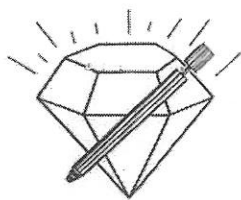
750'	Clean Oil	100% oil
60'	GCWMCO	20% gas, 40% oil, 20% wtr, 20% mud
90'	Water	100% wtr
----	2600' Gas In Pipe	
----	Gravity: 36.75 @ 60 F	Chlorides: 124,000 PPM ----- RW: .08 ohm @ 60 F ----- PH: 7.5

Iuka-Carmi Development, LLC
 DST #3 Conglomerate, 4344'-4381'
 Start Test Date: 2014/12/15
 Final Test Date: 2014/12/16

Mantey #1-26
 Formation: DST #3 Conglomerate, 4344'-4381'
 Pool: Infield
 Job Number: F364

Mantey #1-26





DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
Mantey1DST4

Company Iuka-Carmi Development, LLC Lease & Well No. Mantey No. 1-26
Elevation 2064 KB Formation Mississippi Effective Pay _____ Ft. Ticket No. F365
Date 12-16-14 Sec. 26 Twp. 25S Range 16W County Edwards State Kansas
Test Approved By Steve Petermann Diamond Representative Jake Fahrenbruch

Formation Test No. 4 Interval Tested from 4,381 ft. to 4,416 ft. Total Depth 4,416 ft.
Packer Depth 4,376 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 4,381 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 4,367 ft. Recorder Number 5951 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 4,382 ft. Recorder Number 5584 Cap. 5,000 psi.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi.

Drilling Contractor Ninnescah Drilling, LLC - Rig 101 Drill Collar Length _____ ft I.D. _____ in.
Mud Type Chemical Viscosity 62 Weight Pipe Length _____ ft I.D. _____ in.
Weight 9.0 Water Loss 8.8 cc. Drill Pipe Length 4,356 ft I.D. 3 1/2 in.
Chlorides 5,000 P.P.M. Test Tool Length 25 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number Not Run Anchor Length 35 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 7 1/2 ins. No blow back during shut-in.

2nd Open: Blow increasing. Off bottom of bucket in 15 mins. No blow back during shut-in.

Recovered 480 ft. of gas in pipe
Recovered 35 ft. of slightly gas cut mud = .498050 bbls. (Grind out: 5%-gas; 95%-mud)
Recovered 35 ft. of TOTAL FLUID = .498050 bbls.
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks _____

Time Set Packer(s) 5:00 P.M. Time Started off Bottom 7:45 P.M. Maximum Temperature 120°
Initial Hydrostatic Pressure.....(A) 2084 P.S.I.
Initial Flow Period.....Minutes 15 (B) 10 P.S.I. to (C) 16 P.S.I.
Initial Closed In Period.....Minutes 45 (D) 488 P.S.I.
Final Flow Period.....Minutes 45 (E) 17 P.S.I. to (F) 25 P.S.I.
Final Closed In Period.....Minutes 60 (G) 504 P.S.I.
Final Hydrostatic Pressure.....(H) 2076 P.S.I.

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

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



TEST INFORMATION

Well Name	Mantey #1-26
Company Name	Iuka-Carmi Development LLC
Formation	DST #4 Mississippian 4381'-4416'
Test Type	Bottom-Hole w/shale packer
Surface Location	Sec 26-25s-16w-Edwards Co.-KS
KB Elevation (SL)	2064.000
Gauge Name	Inside 5951
Start Test Date	2014/12/16
Start Test Time	16:19:00
Final Test Date	2014/12/16
Final Test Time	21:46:00
Job Number	F365
Contact	Kenny Gates
Site Contact	Steve Petermann

TEST RESULTS

Initial flow, blow increased to 7.5". No blowback.
 Final flow, blow increased to BOB in 15 minutes. No blowback.

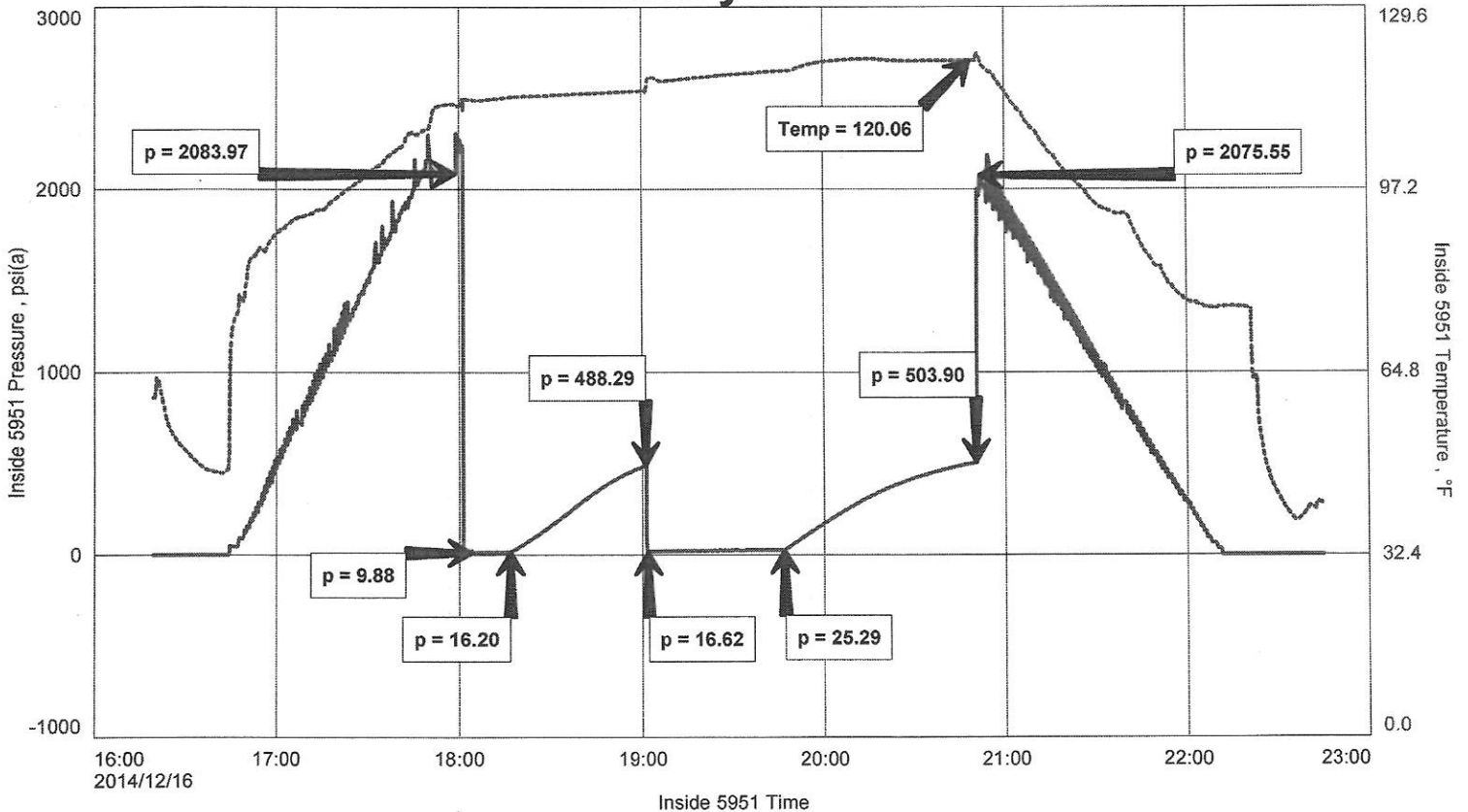
RECOVERED: 35' SGCM 5% gas, 95% mud

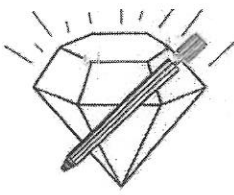
----- 480' Gas In Pipe

Iuka-Carmi Development, LLC
 DST #4 Mississippian 4381'-4416'
 Start Test Date: 2014/12/16
 Final Test Date: 2014/12/16

Mantey #1-26
 Formation: DST #4 Mississippian 4381'-4416'
 Pool: Infield
 Job Number: F365

Mantey #1-26





DIAMOND TESTING, LLC

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

Mantey1DST5

Company Iuka-Carmi Development, LLC Lease & Well No. Mantey No. 1-26
 Elevation 2064 KB Formation Plattsmouth Effective Pay _____ Ft. Ticket No. F366
 Date 12-18-14 Sec. 26 Twp. 25S Range 16W County Edwards State Kansas
 Test Approved By Steve Petermann Diamond Representative Jake Fahrenbruch

Formation Test No. 5 Interval Tested from 3,624 ft. to 3,658 ft. Total Depth 4,760 ft
 Packer Depth 3,619 ft. Size 6 3/4 in. Packer Depth 3,658 ft. Size 6 3/4 in.
 Packer Depth 3,624 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
 Depth of Selective Zone Set 3,658 ft.

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ psi.
 Bottom Recorder Depth (Outside) 3,625 ft. Recorder Number 5951 Cap. 5,000 psi.
 Below Straddle Recorder Depth 3,663 ft. Recorder Number 5584 Cap. 5,000 psi.

Drilling Contractor Ninnescah Drilling, LLC - Rig 101 Drill Collar Length _____ ft I.D. _____ in.
 Mud Type Chemical Viscosity 54 Weight Pipe Length _____ ft I.D. _____ in.
 Weight 9.2 Water Loss 11.2 cc. Drill Pipe Length 3,599 ft I.D. 3 1/2 in.
 Chlorides 10,000 P.P.M. Test Tool Length 25 ft Tool Size 3 1/2-IF in.
 Jars: Make Sterling Serial Number Not Run Anchor Length 34' perf. w/ 1,102' tail 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: N/A

2nd Open: N/A

Recovered _____ ft. of MISRUN!
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks MISRUN - Tried to set hookwall tool from 8:15pm - 9:45pm & couldn't get it hooked.

When we got the tool back to surface, hookwall tool jaws were packed solid.

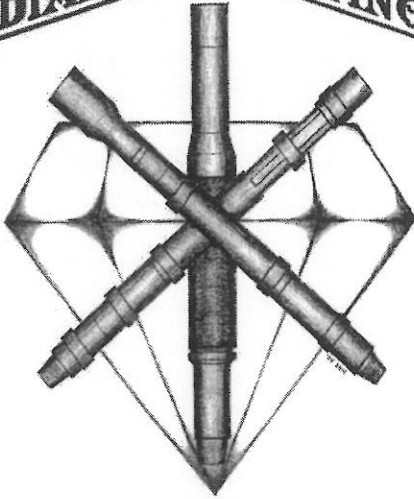
Time Set Packer(s) _____ Time Started off Bottom _____ Maximum Temperature _____
 Initial Hydrostatic Pressure.....(A) _____ P.S.I.
 Initial Flow Period.....Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
 Initial Closed In Period.....Minutes _____ (D) _____ P.S.I.
 Final Flow Period.....Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
 Final Closed In Period.....Minutes _____ (G) _____ P.S.I.
 Final Hydrostatic Pressure.....(H) _____ P.S.I.

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

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

DIAMOND TESTING



TEST INFORMATION

Well Name	Mantey #1-26
Company Name	Iuka-Carmi Development LLC
Formation	DST #5 Plattsmouth (3624'-3658', hook 3664', TD 4760')
Test Type	Hookwall Straddle w/Shale Packer
Surface Location	Sec 26-25s-16w-Edwards Co.-KS
KB Elevation (SL)	2064.000
Gauge Name	Outside 5951
Start Test Date	2014/12/18
Start Test Time	17:50:00
Final Test Date	2014/12/19
Final Test Time	00:39:00
Job Number	F366
Contact	Kenny Gates
Site Contact	Steve Petermann

TEST RESULTS

Tried to set hookwall tool from 8:15 pm - 9:45 pm, could not get hook to set.
(when we got the hookwall tool back to surface, the jaws were packed solid)

MIS-RUN

Iuka-Carmi Development, LLC
DST #5 Plattsmouth (3624'-3658', hook 3664', TD 4760')
Start Test Date: 2014/12/18
Final Test Date: 2014/12/19

Mantey #1-26
Formation: DST #5 Plattsmouth (3624'-3658', hook 3664', TD 4760')
Pool: Infield
Job Number: F366

Mantey #1-26

