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ORIGINAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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JUN 07 2010

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

All Blanks must be Filled

KCC WICHITA

6/7/10

OPERATOR: License # 33880
Name: Ramsey Property Management, L.L.
Address 1: 2932 N.W. 122nd Street, Suite 4
Address 2:
City: Oklahoma City State: OK Zip: 73120 + 1955
Contact Person: Stephen E. Nichols
Phone: (405) 302-6200
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Larry Goessman
Purchaser: N.A.

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JUN 21 2010

CONSERVATION DIVISION
WICHITA, KS

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
Conv. to GSW
Plug Back: Plug Back Total Depth
Commingled Permit #:
Dual Completion Permit #:
SWD Permit #:
ENHR Permit #:
GSW Permit #:

4/6/10 4/18/10 Not Applicable
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 071-20877-00-00
Spot Description: 2156' FNL & 2310' FEL
N/2 SW SW NE Sec. 5 Twp. 18 S. R. 41 East West
2,156 Feet from North / South Line of Section
2,310 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE NW SE SW
County: Greeley
Lease Name: Dixon Well #: 1-5
Field Name: N.A.
Producing Formation: N.A.
Elevation: Ground: 3679.6' Kelly Bushing: 3691'
Total Depth: 5300' Plug Back Total Depth: 5300'
Amount of Surface Pipe Set and Cemented at: 590 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from: 590'
feet depth to: 590' w/ 340 sx cmt.

Drilling Fluid Management Pla.
(Data must be collected from the Reserve Pit)
Chloride content: 5000 ppm Fluid volume: 6625 bbls
Dewatering method used: Evaporation & Dehydration
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. East West
County: Permit #:

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: Stephen E. Nichols
Title: Managing Partner Date: 6/4/10

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Letter of Confidentiality Received Date: 6-7-2010
Confidential Release Date:
Wireline Log Received
Geologist Report Received
UIC Distribution
ALT I II III Approved by: NS Date: 7-3-10

Operator Name: Ramsey Property Management, L.L.C. Lease Name: Dixon Well #: 1-5
 Sec. 5 Twp. 18 S. R. 41 East West County: Greeley

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Resistivity, Neutron Density, Microlog	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Lansing</td> <td>4127'</td> <td>-437'</td> </tr> <tr> <td>Marmaton</td> <td>4548'</td> <td>-858'</td> </tr> <tr> <td>Morrow</td> <td>4947'</td> <td>-1284'</td> </tr> <tr> <td>L. MorrowKeyes</td> <td>5056'</td> <td>-1366'</td> </tr> <tr> <td>Mississippi</td> <td>5150'</td> <td>-1460'</td> </tr> <tr> <td>TD</td> <td>5300'</td> <td>-1610'</td> </tr> </table>	Name	Top	Datum	Lansing	4127'	-437'	Marmaton	4548'	-858'	Morrow	4947'	-1284'	L. MorrowKeyes	5056'	-1366'	Mississippi	5150'	-1460'	TD	5300'	-1610'
Name	Top	Datum																				
Lansing	4127'	-437'																				
Marmaton	4548'	-858'																				
Morrow	4947'	-1284'																				
L. MorrowKeyes	5056'	-1366'																				
Mississippi	5150'	-1460'																				
TD	5300'	-1610'																				

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	12-1/4"	8-5/8"	24#	590'	Class "H"	340	2%CaCl & 1/4#ax Cell-Flake

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				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
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: _____ _____
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15 A 1001

PAGE 1 of 1	CUST NO 1003389	INVOICE DATE 04/08/2010
INVOICE NUMBER 1717 - 90287282		

Liberal (620) 624-2277
 B RAMSEY PROPERTY MANAGEMENT INC
 I 2932 NW 122ND ST STE 4
 L OKLAHOMA CITY
 L OK US 73120
 T
 O ATTN:

J LEASE NAME Dixon #1-5
 O LOCATION
 B COUNTY Greeley
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T
 B JOB CONTACT
have #112700

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40168828	12978		Net - 30 days	05/08/2010

For Service Dates: 04/06/2010 to 04/06/2010

0040168828

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171700545A Cement-New Well Casing/Pi 04/06/2010
 8 5/8" Surface

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
Premium Plus Cement	340.00	EA	7.78	2,644.71 T
Calcium Chloride	640.00	EA	0.50	320.68 T
Celloflake	85.00	EA	1.77	150.08 T
Insert Float Valve - 8 5/8"	1.00	EA	133.62	133.62
Centralizer - 8 5/8"	3.00	EA	69.20	207.59
Top Rubber Cement Plug - 8 5/8"	1.00	EA	107.37	107.37
Basket - 8 5/8"	1.00	EA	150.32	150.32
Stop Ring - 8 5/8"	1.00	EA	21.00	21.00
Heavy Equipment Mileage	200.00	MI	3.34	668.09
Blending & Mixing Service Charge	340.00	MI	0.67	227.15
Proppant and Bulk Delivery Charge	1,600.00	MI	0.76	1,221.65
Depth Charge; 501' - 1000'	1.00	EA	572.65	572.65
Plug Container Charge	1.00	EA	119.30	119.30
Car, Pickup or Van Mileage	100.00	MI	2.03	202.81
Service Supervisor Charge	1.00	HR	83.51	83.51

ENTERED
 APR 19 2010
 Knol CPA 513

code 181-Cementing Service - surface

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PLEASE REMIT TO: BASIC ENERGY SERVICES, LP PO BOX 841903 DALLAS, TX 75284-1903	SEND OTHER CORRESPONDENCE TO: BASIC ENERGY SERVICES, LP PO BOX 10460 MIDLAND, TX 79702	SUB TOTAL TAX INVOICE TOTAL	6,830.53 196.27 7,026.80
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zaw



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.
P.O. Box 129
Liberal, Kansas 67905
Phone 620-624-2277

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CONFIDENTIAL
DATE

FIELD SERVICE TICKET

1717 00365 A

TICKET NO. _____

DATE OF JOB <u>04.06.2010</u> DISTRICT <u>1717</u>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER <u>Lawson Property Management</u>		LEASE <u>1.1.2010</u> WELL NO. <u>12</u>							
ADDRESS		COUNTY <u>Greene</u> STATE <u>KS</u>							
CITY STATE		SERVICE CREW <u>David H. Kuyper Co. Engineering Co.</u>							
AUTHORIZED BY <u>Terry Bennett</u> <u>JRB</u>		JOB TYPE: <u>242 Surface Pipe</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>14902</u>	<u>11</u>						<u>4.6.10</u>	<u>PM</u>	<u>2:00</u>
<u>17978</u>	<u>11</u>					ARRIVED AT JOB	<u>4.6.10</u>	<u>AM</u>	<u>7:00</u>
<u>14913</u>	<u>11</u>					START OPERATION	<u>4.6</u>	<u>AM</u>	<u>11:30</u>
<u>14354</u>	<u>11</u>					FINISH OPERATION	<u>4.6</u>	<u>AM</u>	<u>12:30</u>
<u>14574</u>	<u>11</u>					RELEASED	<u>4.6</u>	<u>AM</u>	<u>1:00</u>
						MILES FROM STATION TO WELL	<u>175</u>		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

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SIGNED _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CL110	Premium Plus Cement	SK	300		5540
CL109	Calcium Chloride	lb	600		1,770
CL102	Coil Hanger	lb	35		314
CE1453	Chopper Type Insect Flong	ea	1		25
CE1773	Caulk/Sealer	ea	3		435
CE105	Tap Rubber Cement Plug	ea	1		205
CE1903	Basket	ea	1		315
CE503	Stop Ring	ea	1		114
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E101	Travel Mileage	mi	200		1400
CL240	Blending & Mixing Service Charge	SK	300		
E113	Propellant & Coils Blending Charge	ea	1600		
CE201	Depth Charge 50' 1000'	1/1113	1		
CE504	Plug Container Mixture Charge	job	1		
E110	Travel Mileage	mi	100		
5003	Service Supervisor Fee	ea	1		
SUB TOTAL					<u>16830</u>

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CHEMICAL / ACID DATA:

SERVICE & EQUIPMENT %TAX ON \$
MATERIALS %TAX ON \$

TOTAL

SERVICE REPRESENTATIVE G. Thompson

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY _____
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

KCC
JUN 07 2010

TREATMENT REPORT

Customer: Ramsey Property Management Lease No. **CONFIDENTIAL** Date: 04-06-2010
 Lease: Dixon Well #: 1-5
 Field Order #: 00545 Station: 1717 Casing: 8 5/8" Depth: 595' TO County: Greeley State: KS
 Type Job: Surface Z42 Formation: Legal Description: 5-18-41

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size: 8 5/8"	Tubing Size:	Shots/Ft:	340 SX	Acid:	Premium Plus Cement	RATE:	PRESS:	ISIP:
Depth: 542.7'	Depth:	From:	To:	Pre Pad:	2% Calcium Chloride	Max:		5 Min.
Volume: 35 bbl	Volume:	From:	To:	Pad:	1/4" Cell Flake	Min:		10 Min.
Max Press: 1500 psi	Max Press:	From:	To:	Frac:	1.35 yield 6.3 lb water	Avg:	14.8 weight	15 Min.
Well Connection: Plug Cont	Annulus Vol.:	From:	To:			HHP Used:		Annulus Pressure
Plug Depth: 551.1'	Packer Depth:	From:	To:	Flush:	35 bbl H2O	Gas Volume:		Total Load

Customer Representative: Tim Thompson Station Manager: Jerry Bennett Treater: Garry Humphries

Service Units: 19802	12978	19843	14354	14578
Driver Names: Larry H	Royce	Olds	Santingo	Chavez

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
0700					Arrive on location Safety Meeting
1000					Start a hole w/ 3 1/2" casing
1100					Casing on bottom Circulate Well
1115					Safety Meeting
1128	2700				PSI Test Lines
1135	25		0	3.5	Start Pumping 340sx from fls @ 14.8"
1148	0		82		Finish Pumping Cement
1149					Drop Plug
1151	0		0	3.5	Start Pumping Displacement
1210	200		25	2	Slow Rate
1221	200-700		35	1.5	Land Plug
1222	0				Release PSI
					Circulated 25 bbl Cement to pit

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APR 22 2010

PAGE 1 of 1	CUST NO 1003389	INVOICE DATE 04/20/2010
INVOICE NUMBER 1717 - 90294949		

Liberal (620) 624-2277
 B RAMSEY PROPERTY MANAGEMENT INC
 I 2932 NW 122ND ST STE 4
 L OKLAHOMA CITY
 L OK US 73120
 T
 O ATTN:

J LEASE NAME Dixon #1-5
 O LOCATION
 B COUNTY Greeley
 S STATE KS
 I JOB DESCRIPTION Cement-Plug & Abandonment
 T
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40172909	30464		Net - 30 days	05/20/2010

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 04/19/2010 to 04/19/2010</i>				
0040172909				
171700706A Cement-Plug & Abandonment 04/19/2010 PTA job				
60/40 POZ	300.00	EA	5.64	1,692.00 T
Cement Gel	516.00	EA	0.12	60.63 T
Celloflake	75.00	EA	1.74	130.43 T
Heavy Equipment Mileage	200.00	MI	3.29	658.00 T
Blending & Mixing Service Charge	300.00	MI	0.66	197.40 T
Proppant and Bulk Delivery Charge	1,290.00	MI	0.75	970.08 T
Depth Charge; 2001' - 3000'	1.00	EA	846.00	846.00 T
Car, Pickup or Van Mileage	100.00	MI	2.00	199.75 T
Service Supervisor Charge	1.00	HR	82.25	82.25 T

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PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	4,836.54
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	304.70
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	5,141.24
DALLAS, TX 75284-1903	MIDLAND, TX 79702		

BASIC

energy services, L.P.

TREATMENT REPORT

Customer <i>Ramsey Property Management</i>	Lease No. <i>1-5</i>	Date <i>4-19-10</i>
Lease <i>Dixon</i>	Well # <i>1-5</i>	
Field Order # <i>171700206</i>	Station <i>Liberal</i>	Casing <i>NA</i>
Type Job <i>244 Plug & Abandon</i>	Depth <i>2670</i>	County <i>Greeley</i>
	Formation	State <i>KS</i>
		Legal Description <i>S-1E-41</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>NA</i>	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth <i>2670</i>	Depth	From	To	Pre Pad	Max			5 Min.
Volume	Volume	From	To	Pad	Min			10 Min. <i>KCC</i>
Max Press	Max Press	From	To	Frac	Avg			15 Min. <i>67 20.5</i>
Well Connection	Annulus Vol.	From	To		HHP Used			Annulus Pressure <i>CONFIDENTIAL</i>
Plug Depth	Packer Depth	From	To	Flush	Gas Volume			Total Load

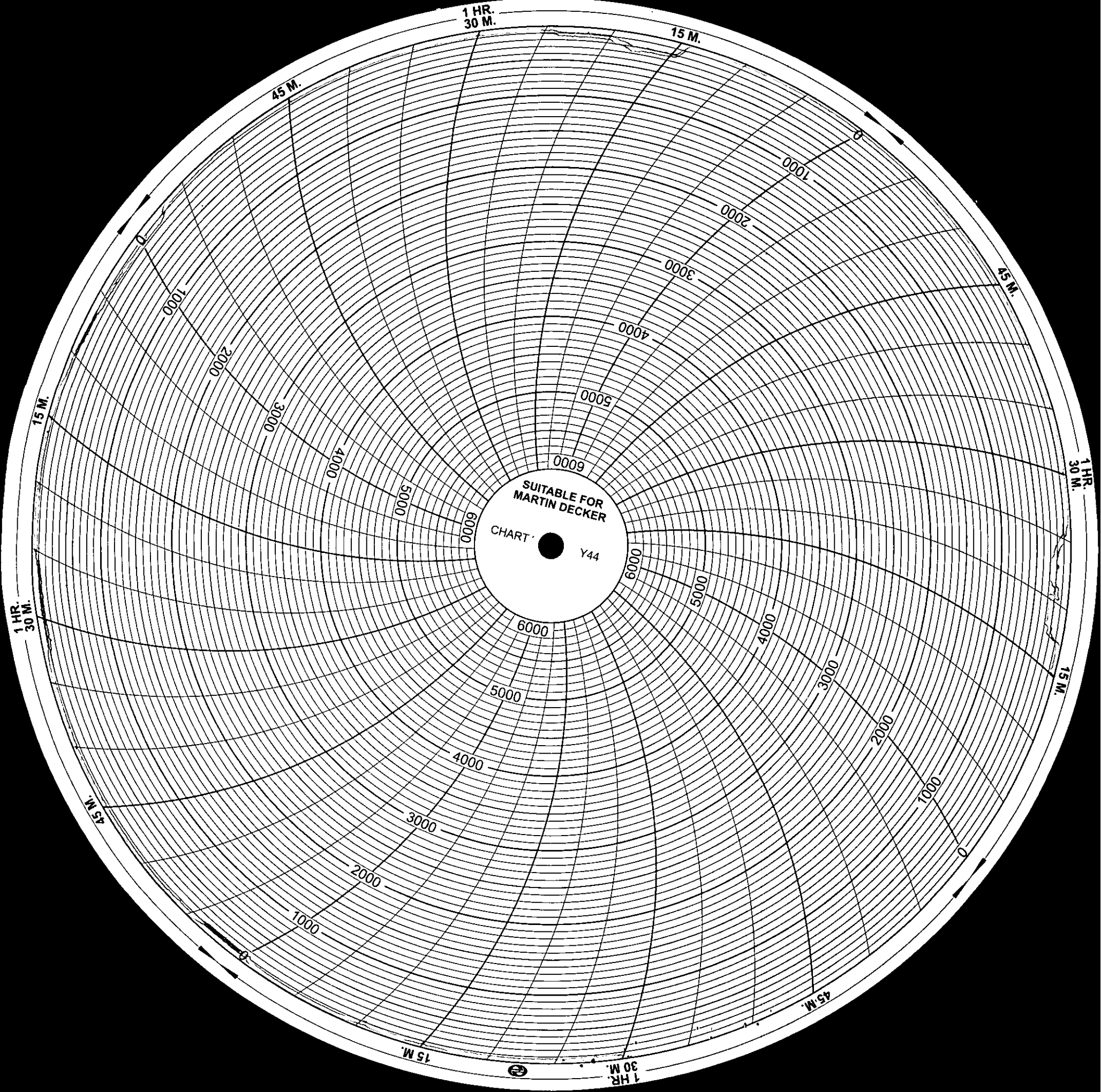
Customer Representative <i>Tim Thomas</i>	Station Manager <i>Jerry Bennett</i>	Treater <i>Jasen Arciniega</i>
Service Units <i>30464 19919 30463 19566 19820</i>		
Driver Names <i>J. McCann V.V. J. Arciniega</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
18:30					On Loc.
18:35					On Loc. Safety Meeting
18:40					Rig up
19:18	300	—	10	3	Pump H ₂ O Ahead
19:22	400	—	13	3	Pump 50 sk 60/40 Poz @ 13.5 # 4 th Plug 220'
19:26	200	—	3	3	Pump H ₂ O Behind
19:29	200	—	31	3	Disp w/ Mud
20:14	300	—	10	3	Pump H ₂ O Ahead
20:17	300	—	21	3	Pump 85 sk 60/40 Poz @ 13.5 # 4 th Plug 1680'
20:24	150	—	3	3	Pump H ₂ O Behind
20:27	200	—	16	3	Disp w/ Mud
20:56	200	—	25	3	Pump H ₂ O Ahead
21:04	250	—	13	3	Pump 50 sk 60/40 Poz @ 13.5 # 3 rd Plug 870'
21:09	200	—	9	3	Pump H ₂ O Behind
21:24	250	—	10	3	Pump H ₂ O Ahead
21:27	200	—	13	3	Pump 50 sk 60/40 Poz @ 13.5 # 4 th Plug 600'
21:32	200	—	5	3	Pump H ₂ O Behind
21:55	100	—	5	3	Pump 20 sk 60/40 Poz @ 13.5 # 5 th Plug 60'
22:07	0	—	1	2	Plug RH, MH
22:20					Rig down
22:45					Leave Loc.

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Ramsey

Dixon #1-5

PPA

4-19-10

Arrington/McCann

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Ramsey Property Management, Inc.

Dixon No. 1-5

Section 5, T18S, R41W

Greeley County, Kansas

April, 2010

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Well Summary

The Ramsey Property Management Inc., Dixon No. 1-5 was drilled as a wildcat to a total depth of 5300' in the Mississippi geological time period without any major problems.

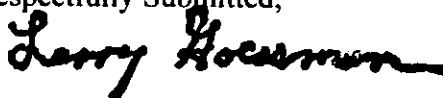
One of the closest offsetting wells was the Ramsey Property Management, Wineiger No. 1 -30 approximately 2.5 miles to the North East. The Stone Corral Anhydrite came in 62' low relative to this offset. Structure was gained and the Neva formation came in 41' structurally low. The Lansing ran 51' low. Thinning occurred and Marmarton and Cherokee ran 14' low. Additional thickening occurred as the Morrow, Lower Morrow and Mississippi ran 28', 36' and 45' low respectively.

The most noteworthy hydrocarbon show occurred in the Pennsylvanian period of the Virgil Formation (3525'-3566'). The formation consists of Shales inter-bedded with Siltstones and very fine grained Sandstones. The light gray to buff colored formation had firm to fryable tendencies with the sand grains being held together with clay and or disseminated anhydrite altered to gypsum cement. Visual porosity was poor to void but yielding a 424 unit gas show. The zone was tested recovering 315' of drilling mud.

Morrow Sandstones nor hydrocarbon shows or significant gas increases were documented during the drilling of formation.

The Dixon No. 1-5 was plugged and abandoned 4/20/10.

Respectfully Submitted,



Larry Goessman

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WELL DATA

Operator: Ramsey Property Management, Inc. 2932 N.W. 122nd St., Suite, Oklahoma City, Oklahoma 73120-1955, Steve Nichols

Well: Dixon 1-5, Wildcat

Prospect Generators: Plainsmen Partners LLC, Dan Earl Duggan, Stephen Meese

Drilling Engineer: Tim Thomson, Crown Consulting – Liberal, KS

API No.: 071-20877-00

Location: 2156' FNL & 2310' FEL, Section 5, T18S, R41W, Greely County, Kansas

Elevation: Ground Level 3679', Kelly Bushing 3690'

Surface Owner: Dixon

Contractor: Murfin Drilling Rig No. 21, Toolpusher Juan Tinaco, Drillers Martin Castro, Arturo Cabezos, Jose Porel, Type: Double stand, double jackknife.

Spud Date: 4/6/2010

Total Depth: 4/18/2010, Driller 5300', Logger 5300', Mississippi

Casing Program: 14 joints of 8 5/8", 24 lbs/ft set at 587'. Cement with 315 sacks A-con(3% cc, ¼ lb floseal) and 150 sacks Prem Com.

Mud Program: Service Mud Inc., Engineer Tony Maestas – Lamar, CO, Type: Chemical Gel/LCM, displaced at 3000'.

Wellsite Consultant: Larry Goessman with mudlogging trailer, 17756 E. Tennessee Dr. Aurora , CO 80017, 303/907-3660, lgoessman@gmail.com, .

Samples: 10'samples 2000' to TD.

Drillstem Testing: Trilobite Testing, Moscow, Kansas, Engineer Mike Slempp, DST NO. 1: (3490'-3566'), misrun. DST NO. 2: (3435'- 3566'), misrun. DST NO. 3: (3460'-3566') recovered 315' mud. Penn. Virgil Fm.

Electric Logs: Halliburton, Engineer Sung Jung, 1) Array Compensated Resistivity, 2) Spectral Density/Neutron, 3) Microlog

Status: Plug and abandoned 4-20-2010.

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WELL CHRONOLOGY

6 PM			
<u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>RIG ACTIVITY</u>
4/5	490'	375'	Move to location and rig up rotary tools. Mix spud mud. Drill rathole and mousehole.
4/6	595'	228'	Survey(1/2 deg.). Service rig and clean suction. Drilling. to 595' and circulate. Wiper trip and circulate. Drop survey(1/4 deg.) and trip for surface casing. Run and cement 14 joints of 8 5/8" casing set at 595' and wait on cement.
4/7	1116'	527'	Wait on cement. Back off landing joint and nipple up BOP. Trip in and drill plug. TOOH TIH w/magnet, TOOH w/magnet, TIH and drill 7 7/8" hole to 1116'. Survey(1/2 deg.).
4/8	1860'	744'	Drill ahead, Service rig and grease swivel. Survey(3/4 deg.).
4/9	2230'	370'	Survey (3/4 deg.) and drilling ahead. Displaced mud system.
4/10	2591'	367'	Drop survey(.5 deg) Drill to 2591'.
4/11	3334'	743'	Survey (1 deg.). Service and clean suction.
4/12	3566'	232'	Short trip 31 stands and circulate and condition mud. Drop survey (1.5 deg) and trip for DST No. 1(3490'—3566'), Virgil Formation [Misrun], Trip in hole with DST #2 (3435'- 3566') [Misrun], Trip in hole with DST # 3 (3460'-3566') recovered 315' drilling mud.
4/13	3920'	354'	Drilling ahead, Grease swivel and run survey(.75 deg.).
4/14	4245'	335'	Drilling ahead, Service and clean suction.
4/15	4434'	185'	Drill ahead, Pump pressure decrease, TOOH for hole in pipe. Trip in hole drill ahead. Survey(1 deg.) and service rig and grease swivel.
4/16	4823'	389'	Drill ahead, Service mud pumps and rig.
4/17	5106'	283'	Drill ahead, Circulate samples 4,987', drill to 5,053' Circulate samples, Service mud pumps and rig, drill ahead
4/18	5300' TD	194'	Drill ahead, Circulate , Short trip 28 stands , on bottom circulate, TOOH for E-Logs, run E-Logs. Trip in and circulate. Orders to P&A.

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MUD PROPERTIES

<u>DATE</u>	<u>DEPTH</u>	<u>WT</u>	<u>VIS</u>	<u>PV</u>	<u>YP</u>	<u>pH</u>	<u>WL</u>	<u>CL</u>	<u>LCM #/bbl</u>
4/6	559'	9.6	32	10	6	NA	n/c	na	na
4/7	690'	8.4	32	2	0	7.0	n/c	1,000	4
4/8	1644'	9.5	34	4	9	7.0	n/c	1,000	4
4/9	2648'	9.4	31	3	0	7.0	n/c	840	4
4/10	3090'	9.6	32	3	8	7.0	nc	440	3
4/11	'	na	na	na	na	na			
4/12	3566'	8.6	49	16	17	11.0	8.0	400	2
4/13	3765'	9.0	42	10	13	14.4	8.0	120	3
4/14	4172'	9.2	48	15	16	10.5	10.5	750	3
4/15	4461'	9.3	42	13	15	10.0	12.0	800	2
4/16	4673'	9.3	46	13	16	10.0	10.4	740	5
4/17	5003'	9.2	67	18	23	9.0	10.4	650	5
4/18	5300'	9.2	56	16	17	9.5	9.6	680	4

DEVIATION RECORD

595' 1/4, 967' 1/2, 1022' 3/4, 1400' 3/4, 1680' 1/2, 1870' 1/2, 2372' 1/2, 2591' 1deg, 2843' 1/2, 3095' 3/4, 3347' 1, 3566' 1 1/2, 3818' 3/4, 4069' 3/4, 4321' 1, 4573' 1 1/2, 4823' 3/4, 5074' 3/4

DRILL STEM DATA

DST NO. 1: (3490' – 3566'), Penn. Virgil
Type: Conventional Bottom Hole Test
Misrun

DST NO. 2: (3435' – 3566'), Penn. Virgil
Type: Conventional Bottom Hole Test
Misrun

DST NO. 3: (3460' – 3566'), Penn. Virgil
Type: Conventional Bottom Hole Test Times: 15-30-60-120

<u>PERIOD</u>	<u>TIME</u>	<u>PSI</u>
IH		1626
IF	30	79 - 173
ISI	60	173 - 946
FF	60	176 - 182
FSI	120	911
FH		1620

BHT: 107 deg. F

BLOWS: BOB in 3 minutes and died; FF – No blow.

RECOVERY: 315' of mud, no show. Sample Chamber – 325 PSI, 2000 ml mud.

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ELECTRIC Mud LOG FORMATION TOPS- KB Elev. 3690'

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>*Wineiger No. 1-30</u>	
			<u>DATUM</u>	<u>POSITION</u>
Stone Corral	2539'	+1151'	+1089'	+62'
Base Anhy/Red Cave	2563'	+1127'	+1052'	+45'
Council Grove	2970'	+720'	+685'	+35'
Neva	3324'	+366'	+315'	+51'
Foraker	3394'	+296'	+245'	+41'
Admire	3460'	+230'	+181'	+44'
Pennsylvanian Virgil	3510'	+180'	+131'	+44'
Shawnee	3894'	-204'	-194'	+10'
Heebner	4025'	-335'	-365'	+30'
Lansing	4127'	-437'	-488'	+51'
B Kansas City	4524'	-834'	-827'	+7'
Marmaton	4548'	-858'	-844'	+14'
Cherokee	4682'	-992'	-981'	+11'
Atoka	4813'	-1123'	-1105'	+18'
Morrow	4947'	-1284'	-1256'	+28'
L. Morrow/Keyes	5056'	-1366'	-1330'	+36'
Mississippi	5150'	-1460'	-1415'	+45'
TD	5300'	-1610'		

*Ramsey Property Management, Wineiger No. 1-30, approxitely 2.5 Miles to the SE., K.B. Elev. 3741'

LITHOLOGY DESCRIPTION

SAMPLES ARE LAGGED

2000-2030 SHALE: Red to orange red brn brick red earthy blocky silty to sndy in part calcareous anhyic with ANHYDRITE: Mot brown to gray tan white hard crystalline

ANHYDRITE: Wh light to medium mottled gray mlky red to orngbrn hard crystalline

2030-2050 SHALE: Red to orange redbrn brick red earthy blocky silty to sndy in part calcareous anhyic with ANHYDRITE: Mot brown to gray tan white hard crystalline

2050-2080 SHALE Redbrn to brick red earthy blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no fluorescence no stain or cut

2080- 2100 SHALE Redbrn to brick red earthy blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff firm friable very fine well sorted grains clay cement abundant clay infill anhyic poor vis porosity no fluorescence no stain or cut

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2100 - 2150 SHALE Redbrn to brick red earthy blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no fluorescence no stain or cut

2150-2200 SHALE: Brick Red red brown to dark brick red earthy blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no fluorescence no stain or cut

2200-2250 SHALE: Brick Red red brown to dark brick red earthy blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no fluorescence no stain or cut

2250-2286 SHALE: Redbrn to brick red earthy blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no fluorescence no stain or cut

2286-2308 Anhydrite Wh tan molltled re to brown gry hard crystalline occasional soft and amorphous dolic in part interbed with shale

2308-2356 Salt By drill rates and chlorides

2356-2374 Anhydrite SHALE: Brick Red red brown to dark brick red earthy blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no fluorescence no stain or cut

2374-2420 SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no fluorescence no stain or cut

2420-2442 ANHYDRITE: Wh tan molltled re to brown gry hard crystalline occasional soft and amorphous dolic in part interbed with shale

2442-2500 SHALE: Brick Red red brown to dark brick red earthy blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no fluorescence no stain or cut

2500-2539 SHALE: Brick Red red brown to dark brick red earthy blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no fluorescence no stain or cut

2539 Stone Corral

2539-2563 ANHYDRITE: Wh tan molltled re to brown gry hard crystalline occasional soft and amorphous dolic in part interbed with shale

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2563 Red Cave

2563-2620 SHALE: Brick Red red brown to dark brick red earthy blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no fluorescence no stain or cut

2620-2650 SHALE: Brick Red red brown to dark brick red earthy blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no fluorescence no stain or cut

2650-2691 SHALE: Brick Red red brown to dark brick red earthy blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no fluorescence no stain or cut

2691-2718 ANHYDRITE: Wh tan mottled re to brown gry hard crystalline occasional soft and amorphous dolie in part interbed with shale

2718-2750 SHALE: Red to brown orange to dark brick red occasional green to gygrn earthy blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no fluorescence no stain or cut

2750-2790 SHALE: Red to brown orange to dark brick red occasional green to gygrn earthy blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no fluorescence no stain or cut

2790-2805 Sandstone: Tan white light brown to buff well/sme red to orange firm to friable very fine grain clay and ca cement; no fluorecents stain or cut

2805-2866 SHALE: Red to brown orange to dark brick red occasional green to gygrn earthy blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no fluorescence no stain or cut

2866-2896 SHALE: Red to brown orange to dark brick red occasional green to gygrn earthy blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no fluorescence no stain or cut

2896-2908 SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no fluorescence no stain or cut

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2906-2961 SANDSTONE: Lt Brn tan slight fryable very fine to slity well sorted clay and silical cement argillaceous to marly sme anhydric; Poor visable porosity no fluorescence no stain or cut interbed with Shale

2961-2970 SHALE: Red to brown orange to dark brick red occasional green to gygrn earthy blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no fluorescence no stain or cut

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2970 Council Grove

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2970 3010 SHALE: Red to brown orange to dark brick red occasional green to gygrn earthy blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no fluorescence no stain or cut

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3010-3070 SHALE: Red to brown orange to dark brick red occasional green to gygrn earthy blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no fluorescence no stain or cut

3070-3080 SANDSTONE: Mod to red orange well/ light gry to gry green fryable very fine grain well sorted clay cement calcareous.

3080-3110 SiltStone/very fine SandStoneLight Gray to Tan to Buff firm to fryable very fine well sorted clay cement; NO SHOW

3110-3150 SANDSTONE: Mod to red orange well/ light gry to gry green fryable very fine grain well sorted clay cement calcareous. NO SHOW

3150-3200 SHALE: Red to brown orange to dark brick red occasional green to gygrn earthy blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no fluorescence no stain or cut

3200-3250 SHALE: Red to brown orange to dark brick red occasional green to gygrn earthy blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no fluorescence no stain or cut

SHALE: Red to brown orange to dark brick red occasional green to gygrn earthy blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no fluorescence no stain or cut

3250-3280 LIMESTONE: Mod Red to orange medium brown dense micro crpxln sme argillaceous tight no vis porosity NO SHOW interbedded with SHALE: Red to orange earthy blocky calcareous

3280-3300 SHALE: Red to brown orange to dark brick red occasional green to gygrn earthy blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange

occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill
anhyic poor vis porosity no fluorescence no stain or cut

3300-3324 LIMESTONE: Lt brown buff to white firm to soft chalky in part fine crystalline
sandy fossil fragment sme intxln porosity tight no vis porosity NO SHOW interbedded with
SHALE: Red to orange earthy blocky calcareous

3324' Neva

3324-3370: SHALE: Red to brown orange to dark brick red occasional green to gygrn earthy
blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange
occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill
anhyic poor vis porosity no fluorescence no stain or cut

3370-3394 SHALE: Red to brown orange to dark brick red occasional green to gygrn earthy
blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange
occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill
anhyic poor vis porosity no fluorescence no stain or cut

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3394' Foraker

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3394-3440 SHALE: Red to brown orange to dark brick red occasional green to gygrn earthy
blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange
occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill
anhyic poor vis porosity no fluorescence no stain or cut

3440-3460 LIMESTONE: Lt brown buff to white firm to soft chalky in part fine crystalline
sandy fossil fragment sme intxln porosity tight no vis porosity NO SHOW interbedded with
SHALE: Red to orange earthy blocky calcareous

3460' Admire

DST #1 3490' to 3566' Misrun DST #2 3435' to 3566' Misrun DST #3 3460' to 3566' Results:
on Dst Report Below

3510' Pennsylvanian Virgil

3460-3518 SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff
firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no
fluorescence no stain or cut

3518-3542 SiltStone/very fine SandStoneLight Gray to Tan to Buff firm to fryable very fine well
sorted clay cement; NO SHOW

3542-3566 SHALE: Drk gray to black well/ green to gygrn earthy blocky silty anhyic occasional
grdng to SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff
firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no
fluorescence no stain or cut

3566-3610 SHALE: Drk gray to black well/ green to gygrn earthy blocky silty anhyic occasional
grdng to SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff

firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no fluorescence no stain or cut

3610-3670 LIMESTONE: Lt brown buff to white firm to soft chalky in part fine crystalline sandy fossil fragment sme intxln porosity tight no vis porosity NO SHOW interbedded with SHALE: Red to orange earthy blocky calcareous

3670-3682 SHALE: Drk gray to black well/ green to gygrn earthy blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no fluorescence no stain or cut

3682-3740 LIMESTONE: Lt brown buff to white firm to soft chalky in part fine crystalline sandy fossil fragment sme intxln porosity tight no vis porosity NO SHOW interbedded with SHALE: Red to orange earthy blocky calcareous

3740-3782 SHALE: Drk gray to black well/ green to gygrn earthy blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no fluorescence no stain or cut

3782-3812 LIMESTONE: Lt brown buff to white firm to soft chalky in part fine crystalline sandy fossil fragment sme intxln porosity tight no vis porosity NO SHOW interbedded with SHALE: Red to orange earthy blocky calcareous

3812-3854 LIMESTONE: Lt brown buff to white firm to soft chalky in part fine crystalline sandy fossil fragment sme intxln porosity tight no vis porosity NO SHOW interbedded with SHALE: Red to orange earthy blocky calcareous

3854-3894 SHALE: Drk gray to black well/ green to gygrn earthy blocky silty anhyic occasional grdng to SILTSTONE/very fine SANDSTONE: Red to orange occasional light brown to buff firm friable very fine well sorted grains clay cement abt clay infill anhyic poor vis porosity no fluorescence no stain or cut

3894' Shawnee

3894-3914 LIMESTONE: Lt brown buff to white firm to soft chalky in part fine crystalline sandy fossil fragment sme intxln porosity tight no vis porosity NO SHOW interbedded with SHALE: Red to orange earthy blocky calcareous

3914-3934 SHALE: Drk gray to black well/ green to gygrn firm to blocky carbonaceous calcite.

3934-3972 LIMESTONE: Lt brown to buff to tan micro to crpxln to occasional trace intxln and fine vug porosity fossils well/ trace moldic porosity predhd and tight clean no fluorescence no stain or cut

3972-4004 LIMESTONE: Mod brown buff to tan micro to mrpxln hard dense argillaceous to marly trace fossils tight no fluorescence stain or cut NO SHOW SHALE: Drk gray to black well/ green to gygrn firm to blocky carbonaceous calcite.

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4004-4025 LIMESTONE: Lt brown buff to light gray to white gry green micro to micxln trace micro sucrosic with vug porositty part fine crystalline slity texture fossil fragment sme intxln porosity tight no vis porosity NO SHOW

4025-4052 SHALE: Drk gray to black well/ green to gygrn firm to blocky carbonaceous calcite.

4052-4062 LIMESTONE: Lt brown buff to light gray to white gry green micro to micxln trace micro sucrose with vug porosity part fine crystalline silty texture fossil fragment sme intxln porosity tight no vis porosity, NO SHOW W/ White chalky Anhydrite

4062-4112 LIMESTONE: Lt brown buff to light gray to white gry green micro to micxln trace micro sucrosic with vug porosity part fine crystalline slity texture fossil fragment sme intxln porosity tight no vis porosity, NO SHOW W/ White chalky Anhydrite

4112-4127 SHALE: Drk gray to black well/ green to gygrn firm to blocky carbonaceous calcite.

4127' Lansing

4127-4178 LIMESTONE: Lt brown buff to light gray to white gry green micro to micxln part fine crystalline slity drty texture fossil fragment sme intxln porosity tight no vis porosity NO SHOW

4178-4220 LIMESTONE: Lt brown buff to light gray to micro to micxln part fine crystalline silty drty texture Chalky white crumbly to powder well/sme mushy when hydrated trace pyrite NO SHOW

4220-4240 LIMESTONE: Lt brown buff to light gray to white trace gry green micro to micxln trace micro sucrosic with vug porositty trace oolitic texture fossil fragment sme intxln porosity part fine crystalline well/ pyrite, slity texture fossil fragment sme intxln porosity tight no vis porosity, NO SHOW W/ White chalky Anhydrite

4240-4260 SHALE: Drk gray to black well/ green to gygrn firm to blocky carbonaceous calcite.

4260-4306 LIMESTONE: Lt brown buff to light gray to white gry green micro to micxln part fine crystalline slity drty texture fossil fragment sme intxln porosity tight no vis porosity NO SHOW

4306-4314 SHALE: Drk gray to black well/ green to gygrn firm to blocky carbonaceous calcite.

4314-4366 LIMESTONE: Lt brown buff to light gray to white gry green micro to micxln part fine crystalline slity drty texture fossil fragment sme intxln porosity tight no vis porosity NO SHOW

4366-4382 LIMESTONE: Lt brown buff to light gray to white texture marly with sme trace Pin point vugs filled with clay and/or chalk trace pyrite NO SHOW

4382-4400 SHALE: Drk gray to black well/ green to gygrn firm to blocky carbonaceous calcite. SHALE: Red Brn to Brick Red hard to brittle non calcite

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4400-4438 LIMESTONE: Lt brown buff to light gray to white gry green micro to micxln part fine crystalline slity drty texture fossil fragment sme intxln porosity tight no vis porosity NO SHOW

4438-4450 SHALE: Drk gray to black well/ green to gygrn firm to blocky carbonaceous calcite. SHALE: Red Brn to Brick Red hard to brittle non calcite

4450-4492 LIMESTONE: Lt brown buff to light gray to white texture marly very olitic with sme trace Pin point vugs filled with clay and/or chalk trace pyrite NO SHOW

4492-4548 LIMESTONE: Lt brown buff to light gray to white gry green micro to micxln part fine crystalline slity drty texture fossil fragment sme intxln porosity tight no vis porosity NO SHOW SHALE: Drk gray to black well/ green to gygrn firm to hard blocky carbonaceous calcite.

4548' Marmaton

4448-4452 SHALE: Drk gray to black well/ green to gygrn firm to hard blocky carbonaceous calcite.

4452-4562 LIMESTONE: Lt brown buff to light gray to white texture marly very olitic with sme trace Pin point vugs filled with clay and/or chalk trace pyrite NO SHOW

4562-4606 LIMESTONE: Lt brown buff to light gray to white gry green micro to micxln part fine crystalline slity drty texture fossil fragment sme intxln porosity tight no vis porosity NO SHOW

4606-4636 SHALE: Drk gray to black well/ green to gygrn firm to blocky carbonaceous calcite. SHALE: Red Brn to Brick Red hard to brittle non calcite

4636-4642 LIMESTONE: Lt brown buff to light gray to white texture marly very olitic with sme trace Pin point vugs filled with clay and/or chalk trace pyrite NO SHOW

4642-4672 SHALE: Drk gray to black well/ green to gygrn firm to hard blocky carbonaceous calcite.

4672-4690 LIMESTONE: Lt brown buff to light gray to white texture marly very olitic with sme trace Pin point vugs filled with clay and/or chalk trace pyrite NO SHOW

4682' Cherokee

4690- 4714 SHALE: Drk gray to black well/ green to gygrn firm to hard blocky carbonaceous calcite

SHALE: Drk gray to black well/ green to gygrn firm to hard blocky carbonaceous calcite

4714-4754 LIMESTONE: Lt brown buff to light gray to white texture marly very oolitic with sme trace Pin point vugs filled with clay and/or chalk trace pyrite NO SHOW

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SHALE: Drk gray to black well/ green to gygrn firm to hard blocky carbonaceous calcite

4754-4790 LIMESTONE: Lt brown buff to light gray to white texture marly very oolitic with sme trace Pin point vugs filled with clay and/or chalk trace pyrite NO SHOW

4790-4813 SHALE: Drk gray to black well/ green to gygrn firm to hard blocky carbonaceous calcite

4813' Atoka

4813-4834 LIMESTONE: Lt brown buff to light gray to white texture marly very oolitic with sme trace Pin point vugs filled with clay and/or chalk trace pyrite NO SHOW

4834-4854 SHALE: Drk gray to black well/ green to gygrn firm to hard blocky carbonaceous calcite

4854-4860 LIMESTONE: Lt brown buff to light gray to white texture marly very oolitic with sme trace Pin point vugs filled with clay and/or chalk trace pyrite NO SHOW

4860-4894 SHALE: Drk gray to black firm to hard blocky well/sme fissile calcite carbonaceous calcite W/ LIMESTONE Dk brown black crpxln hard dense argillaceous to marly silty tight no show trace CHRT PYR

4894-4910 LIMESTONE: Lt brown buff to light gray to white texture marly very oolitic with sme trace Pin point vugs filled with clay and/or chalk trace pyrite NO SHOW

4910-4944 LIMESTONE: Lt brown buff to light gray to white texture marly very oolitic with sme trace Pin point vugs filled with clay and/or chalk trace pyrite NO SHOW

4947' Morrow

4947-4960 SHALE: Drk gray to black firm to hard blocky well/sme fissile calcite carbonaceous calcite W/ LIMESTONE Dk brown black crpxln hard dense argillaceous to marly silty tight no show trace CHRT PYR

4960-4998 SHALE: Drk gray to black firm to hard blocky well/sme fissile calcite carbonaceous calcite W/ LIMESTONE Dk brown black crpxln hard dense argillaceous to marly silty tight no show trace CHRT PYR

4898-5024 SHALE: Drk gray to black firm to hard blocky well/sme fissile calcite carbonaceous calcite W/ LIMESTONE Dk brown black crpxln hard dense argillaceous to marly silty tight no show trace CHRT PYR

5024-5046 LIMESTONE: Lt brown buff to light gray to white texture marly very oolitic with sme trace Pin point vugs filled with clay and/or chalk trace pyrite NO SHOW

5046-5064 LIMESTONE: Lt brown buff to light gray to white texture marly very oolitic with sme trace Pin point vugs filled with clay and/or chalk trace pyrite NO SHOW

5056' Keys

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5064-5102 LIMESTONE: Med to light medium brown fn crystalline sub chalky in prt clean argillaceous sndy and glauconitic in part carbonaceous poor vis porosity no show no cut with SHALE dark gry black firm fissile carbonaceous trace chrt

5102-5126 LIMESTONE: Med to light mid brown fn crystalline sub chalky in prt clean argillaceous sndy and glauconitic in part carbonaceous poor vis porosity no show no cut with SHALE dark gry black firm fissile carbonaceous trace chrt

5126-5158 LIMESTONE: Med to light brown micxln sub chalky to argillaceous sndy and glauconitic in part carbonaceous poor vis porosity no show no cut with SHALE dark gry black firm fissile carbonaceous trace chrt No Fluor Stain or Cut

5150' Mississippi

5158-5200 LIMESTONE: Med to light brown micxln sub chalky to argillaceous sndy and glauconitic in part carbonaceous poor vis porosity no show no cut with SHALE dark gry black firm fissile carbonaceous trace chrt No Fluor Stain or Cut

5200-5235 LIMESTONE: Med to light brown micxln sub chalky to argillaceous sndy and glauconitic in part carbonaceous poor vis porosity no show no cut with SHALE dark gry black firm fissile carbonaceous trace chrt No Fluor Stain or Cut

5234-5250 LIMESTONE: Med to light brown micxln sub chalky to argillaceous sndy and glauconitic in part carbonaceous poor vis porosity no show no cut with SHALE dark gry black firm fissile carbonaceous trace chrt No Fluor Stain or Cut

5250-5300 LIMESTONE: Med to light brown micxln sub chalky to argillaceous sndy and glauconitic in part carbonaceous poor vis porosity no show no cut with SHALE dark gry black firm fissile carbonaceous trace chrt No Fluor Stain or Cut

DST # 3 3460' to 3566' IH 1626 psi FH 1620 psi
IF Bottom of Bucket in 3 mineral. blow and died.
IS 173psi to 946psi
FF 176 psi to 182psi
FSI 182psi to 911psi
Recovery 315' drilling mud

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