



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1184468
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
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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: _____

1184468

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Mustang Energy Corporation
Well Name	Dolechek 1
Doc ID	1184468

Tops

Name	Top	Datum
Anhydrite	1221	+ 813
B-Anhydrite	1251	+783
Heebner	3269	-1235
LKC	3313	-1279
BKC	3561	-1527
Conglomerate	3598	-1564
Arbuckle	3607	-1573
Reagan Sand	3652	-1618



CHARGE TO: Mustang Energy
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

TICKET **25255**
 PAGE 1 OF 1

1. SERVICE LOCATIONS	WELL/PROJECT NO. <u>1</u>	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
<u>Hays ks</u>		<u>ole check</u>	<u>Rush</u>	<u>KS</u>		<u>12-18-13</u>	
2. TICKET TYPE	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	WELL PERMIT NO.	ORDER NO.	
<u>Ness City ks</u>			<u>CT</u>	<u>Locust-20</u>			
3. WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL LOCATION				
<u>Oil</u>	<u>Development</u>	<u>Prod Spacer</u>	<u>Hays 500 Coline 2w 15 2w 15 2w 15</u>				
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.		UNIT		AMOUNT
		LOC	ACCT	DF			QTY.	UM	QTY.	UM	
<u>575</u>		<u>1</u>			<u>MILEAGE # 112</u>	<u>15</u>	<u>wt</u>		<u>6</u>	<u>ea</u>	<u>90</u>
<u>578</u>		<u>1</u>			<u>Pump Charge Spacers</u>	<u>1 ea</u>		<u>1500</u>	<u>00</u>		<u>1500</u>
<u>286</u>		<u>1</u>			<u>Heled-1</u>	<u>10</u>	<u>lbs</u>	<u>8</u>	<u>50</u>		<u>85</u>
<u>290</u>		<u>1</u>			<u>O-Ars</u>	<u>1</u>	<u>gal</u>	<u>42</u>	<u>00</u>		<u>42</u>
<u>325</u>		<u>2</u>			<u>Standard Cement</u>	<u>75</u>	<u>sks</u>	<u>14</u>	<u>50</u>		<u>1087</u>
<u>581</u>		<u>2</u>			<u>Service Charge Cement</u>	<u>75</u>	<u>sks</u>	<u>2</u>	<u>00</u>		<u>150</u>
<u>582</u>		<u>2</u>			<u>Drayage</u>	<u>min.</u>		<u>250</u>	<u>00</u>		<u>250</u>

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY,** and **LIMITED WARRANTY** provisions.
 MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

REMIT PAYMENT TO:
SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UN-DECIDED	DIS-AGREE
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO		
	<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND		

PAGE TOTAL 3204 **50**

TOTAL 3279 **19**

TAX 74 **69**

DATE SIGNED 12-18-13 TIME SIGNED 0800 A.M. P.M.

SWIFT OPERATOR John Bussell APPROVAL Bob Bussell

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

Thank You!

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

Home Office P.O. Box 32 Russell, KS 67665

No. 7574

Cell 785-324-1041

Date	12-5-13	Sec.	1	Twp.	16	Range	19	County	Rush	State	Ks	On Location		Finish	4:15 AM
------	---------	------	---	------	----	-------	----	--------	------	-------	----	-------------	--	--------	---------

Location Schoenchen, Ks - 2S, 4W, #1 Into

Lease	Dolechek		Well No.	1	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	Discovery					
Type Job	Production					
Hole Size	7 7/8"	T.D.	3680	Charge To	Mustang Energy	
Csg.	New 4 1/2" #11.6	Depth	3674'	Street		
Tbg. Size		Depth		City	State	
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.		
Cement Left in Csg.	22'	Shoe Joint	22'	Cement Amount Ordered	205 5x Common 10% Salt	
Meas Line		Displace	56 3/4 Bls	5% Gilsomite	- 500 gal mud Clear 48	

EQUIPMENT			
Pumptrk	16	No. Cementer Helper	Billy
Bulktrk	9	No. Driver	Clayton
Bulktrk	pu.	No. Driver	Rick

JOB SERVICES & REMARKS	
Remarks:	Salt 18
Rat Hole	Flowseal
Mouse Hole	Kol-Seal 1025
Centralizers	1, 2, 3, 5, 7, 9, 11, 13 Mud CLR 48 500 gal
Baskets	2 CFL-117 or CD110 CAF 38
D/V or Port Collar	pipe on bottom break Sand
Circulation	pump 500 gal mud Handling 233
Clear 48	plug Rathole w/ 30 ss Mileage
plug mousehole w/ 15ss	Hook to
4 1/2" Cashy + mix	160 5x Cement
Shut down	Released plug + washed
Pump + lines	Hook to Cashy +
Displaced with	56 3/4 Bls
Released + held	

FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	8 turbos
Baskets	1
AFU Inserts	
Float Shoe	
Latch Down	1
Lift pressure	700 #
1 - Rotating head Assy	
Land plug to	1500 #
Pumptrk Charge	prod long string
Mileage	16

Signature	Red Bl	Tax	
		Discount	
		Total Charge	

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

Home Office P.O. Box 32 Russell, KS 67665

No. 7489

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
11-28-13	1	16	19	Push	KS		6:00pm

Location Hays 5 Co Line 15 4w into

Lease Dolechek Well No. 1 Owner

Contractor Discovery #1 To Quality Oilwell Cementing, Inc.

Type Job Surface 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. 1222 Charge To MW Stang Energy

Csg. 8 5/8 Depth 222 Street

Tbg. Size Depth City State

Tool Depth The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. 26' Shoe Joint 26' Cement Amount Ordered 450 cum 3/CC 2/6EL

Meas Line Displace 26 BL 30SK 3/CC used 480

EQUIPMENT Common 480

Pumptrk 11 No. Cementer Grig's Poz. Mix

Bulktrk 9 No. Driver REK Gel. 9

Bulktrk 19 No. Driver Chapman Calcium 17

JOB SERVICES & REMARKS Hulls

Remarks: Salt

Rat Hole Flowseal

Mouse Hole Kol-Seal

Centralizers Mud CLR 48

Baskets CFL-117 or CD110 CAF 38

D/V or Port Collar Sand

8 5/8 on bottom. Est. Circulation. Mix Handling 506

450 SK + Displace Plug Mileage

CEMENT Cement Did not Circulate: Guide Shoe 8 5/8

Centralizer 3

Ryn 1" to 60' + mixed 30SK 3/CC Baskets 1

Cement Circulated! AFU Inserts Baffle Plate

Float Shoe Rubber Plug

Latch Down

Pumptrk Charge Long Surface

Mileage 18

Tax

Discount

Total Charge

Signature Cliff Mayfield

OPERATOR

Company: MUSTANG ENERGY CORPORATION
 Address: PO BOX 1121
 HAYS, KANSAS 67601

Contact Geologist: ROD BRIN
 Contact Phone Nbr: 785-623-0533
 Well Name: DOLECHEK #1
 Location: S2 S2 NE SW Sec.1-16s-19w
 Pool: WILDCAT
 State: KANSAS
 API: 15-165-22,046-00-00
 Field: UNNAMED
 Country: U.S.A.



MUSTANG ENERGY CORPORATION

Scale 1:240 Imperial

Well Name: DOLECHEK #1
 Surface Location: S2 S2 NE SW Sec.1-16s-19w
 Bottom Location:
 API: 15-165-22,046-00-00
 License Number: 33922
 Spud Date: 11/27/2013 Time: 3:00 PM
 Region: ELLIS COUNTY Time: 3:30 PM
 Drilling Completed: 12/3/2013
 Surface Coordinates: 1550' FSL & 1980' FWL
 Bottom Hole Coordinates:
 Ground Elevation: 2026.00ft
 K.B. Elevation: 2034.00ft
 Logged Interval: 2900.00ft To: 3680.00ft
 Total Depth: 3680.00ft
 Formation: ARBUCKLE
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Deviated
 Longitude: -99.3754128 Latitude: 38.6888131
 N/S Co-ord: 1550' FSL
 E/W Co-ord: 1980' FWL

LOGGED BY

Company: SOLUTIONS CONSULTING, INC
 Address: 108 W 35TH
 HAYS, KS 67601
 Phone Nbr: (785) 639-1337
 Logged By: GEOLOGIST Name: CHRIS NEELEY

CONTRACTOR

Contractor: DICOVERY DRILLING
 Rig #: 1
 Rig Type: MUD ROTARY
 Spud Date: 11/27/2013 Time: 3:00 PM
 TD Date: 12/3/2013 Time: 3:30 PM
 Rig Release: 12/5/2013 Time: 4:45 AM

ELEVATIONS

K.B. Elevation: 2034.00ft Ground Elevation: 2026.00ft
 K.B. to Ground: 8.00ft

NOTES

RECOMMENDATION TO RUN PRODUCTION CASING MADE BASED ON POSITIVE RESULTS OF MULTIPLE DRILL STEM TESTS AND STRUCTURAL POSITION

OPEN HOLE LOGGING CARRIED OUT BY NABORS COMPLETION AND PRODUCTION SERVICES CO.: DUAL INDUCTION LOG, MICRO LOG, AND COMPENSATED DENSITY/NEUTRON LOGS PRODUCED

DRILL STEM TESTING CARRIED OUT BY TRILOBITE TESTING INC. TWO CONVENTIONAL BOTTOM HOLE TESTS, AND TWO STRADDLE TESTS PERFORMED.

Daily Activity Report

for

Dolechek #1

S2-S2-NE-SW of Section 1, Township 16 South, Range 19 West


11/27/13	Rig-up, Spud in: 3:00 pm, Slope: ¾° at 342'
11/28/13	1008' drilling, Slope: 1° at 1222' 8 5/8" surface casing set at: 1222' with 450 sxs common 3% gel/2% CC, WOC
11/29/13	1370' drilling
11/30/13	2222' 1 1/2"

11/30/13	2322 drilling
12/01/13	3075' drilling, CFS: 3448, Short trip :X stands, CCH 1 1/2 hours, Slope: 1 1/4° at 3348, Strap: 0.36' short, Drill stem test #1: 3297'-3348' 'A' zone
12/02/13	3075' Tripping in, CFS: 3588, CFS: 3611, CFS: 3614, Mini trip: 10 stands, CCH: 1 1/2 hours, Slope: 2°, Drill Stem Test #2: 3556'-3614' 'L' zone to Arbuckle
12/03/13	3614' Drill deeper to RTD: 3680', CFS/CCH: 1 1/2 hours, Slope: Misrun, Logging: Stack micro, Drill stem test #3: 3613'-3622' Arbuckle
12/04/13	3680' Drill stem test #4: 3460'-3538' 'I'-'K'

FORMATION TOPS SUMMARY

		BLACK DIAMOND OIL, INC.				C. C. & S. OIL COMPANY, INC.				MUSTANG ENERGY CORPORATION							
		Dolechek #1				WERTH "B" #1				WERTH #1				GOTTSCHALK A-1			
		52-52-NE-SW Sec. 1, T16S, R19W				NW-SW-NE-SE Sec. 1, T16S, R19W				NW-SE-NE Sec. 1, T16S, R19W				52-NW-SW-SE Sec. 2, T16S, R19W			
		KB 2034				KB 2018				KB 1994				KB 2041			
		LOG TOPS		SAMPLE TOPS		RAG LOG		LOG		COMPLETION CARD		LOG		MICRO LOG		LOG	
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.	DEPTH	DATUM	CORR.	DEPTH	DATUM	CORR.	DEPTH	DATUM	CORR.	
ANHYDRITE	1221	+813	1219	+815	1199	+819	-6	1182	+812	+1	1243	+798	+15				
ANHYDRITE BASE	1251	+783	1248	+786	1230	+788	-5				1274	+767	+16				
TOPEKA	2982	-948	2984	-950	2969	-951	+3	2948	-954	+6	2988	-947	-1				
HEEBNER	3269	-1235	3272	-1238	3254	-1236	+1	3235	-1241	+6	3278	-1237	+2				
TORONTO	3291	-1257	3292	-1258	3274	-1256	-1	3255	-1261	+4	3298	-1257	+0				
LANSING K.C.	3313	-1279	3317	-1283	3307	-1289	+10	3285	-1291	+12	3318	-1277	-2				
K.C. BASE	3561	-1527	3563	-1529	3548	-1530	+3	3525	-1531	+4	3565	-1524	-3				
MARMATON	3588	-1554	3590	-1556	3578	-1560	+6				3594	-1553	-1				
CONGLOMERATE	3598	-1564	3597	-1563	3591	-1573	+9				3602	-1561	-3				
ARBUCKLE	3607	-1573	3606	-1572	3606	-1588	+15	3584	-1590	+17	3611	-1570	-3				
REAGAN	3652	-1618	3647	-1613	3640	-1622	+4	3602	-1608	-10	3655	-1614	-4				
RTD			3680	-1646	3695	-1677		3640	-1646		3718	-1677					
LTD	3681	-1647			3693	-1675		3619	-1625		3714	-1673					

DRILL STEM TEST #1 3297' TO 3348' LKC "C" ZONE



DRILL STEM TEST REPORT

Mustang Energy Corporation 1-16s-19w

Po Box 1121 Dolechek #1
Hays Ks 67601

Job Ticket: 039764 DST#: 1

ATTN: Chris Neeley Test Start: 2013.12.01 @ 22:53:53

GENERAL INFORMATION:

Formation: LKC-A-C
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:35:23
 Time Test Ended: 05:32:53

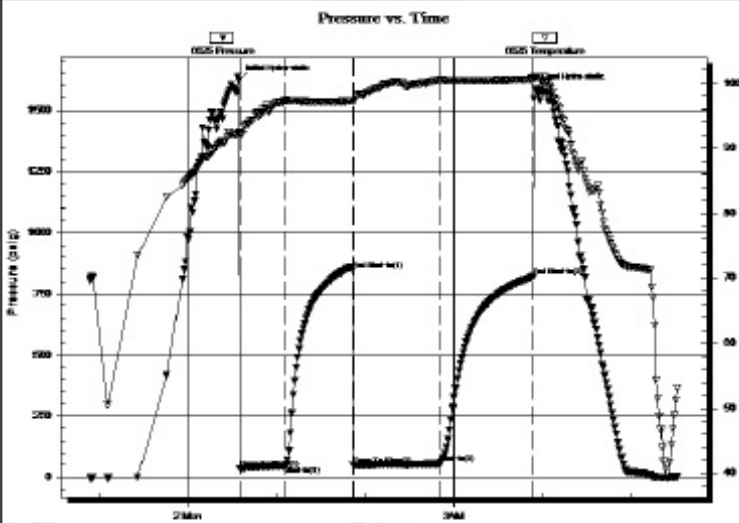
Interval: 3297.00 ft (KB) To 3348.00 ft (KB) (TVD) Reference Elevations: 2034.00 ft (KB)
 Total Depth: 3348.00 ft (KB) (TVD) 2026.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

Serial #: 6625 Outside

Press@RunDepth: 54.48 psig @ 3334.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.12.01 End Date: 2013.12.02 Last Calib.: 2013.12.02
 Start Time: 22:53:54 End Time: 05:31:53 Time On Btm: 2013.12.02 @ 00:34:53
Time Off Btm: 2013.12.02 @ 03:54:53

TEST COMMENT: IFF=Weak blow built to 3-1/4 in
 ISI=Dead no blow back
 FFP=Weak blow built to 3 in
 FSI=Weak surface blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1624.46	92.35	Initial Hydro-static
1	33.81	92.11	Open To Flow (1)
31	47.36	97.29	Shut-In(1)
77	845.81	97.22	End Shut-In(1)
77	47.75	97.12	Open To Flow (2)
136	54.48	100.54	Shut-In(2)
199	820.69	100.68	End Shut-In(2)
200	1590.80	100.92	Final Hydro-static


Recovery

Length (ft)	Description	Volume (bbl)
55.00	Mud with oil spots	0.51

Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)

DRILL STEM TEST #2 3556' TO 3614' LKC "L" ZONE TO ARBUCKLE



DRILL STEM TEST REPORT

Mustang Energy Corporation 1-16s-19w

Po Box 1121 Dolechek #1
Hays Ks 67601

Job Ticket: 039765 DST#: 2

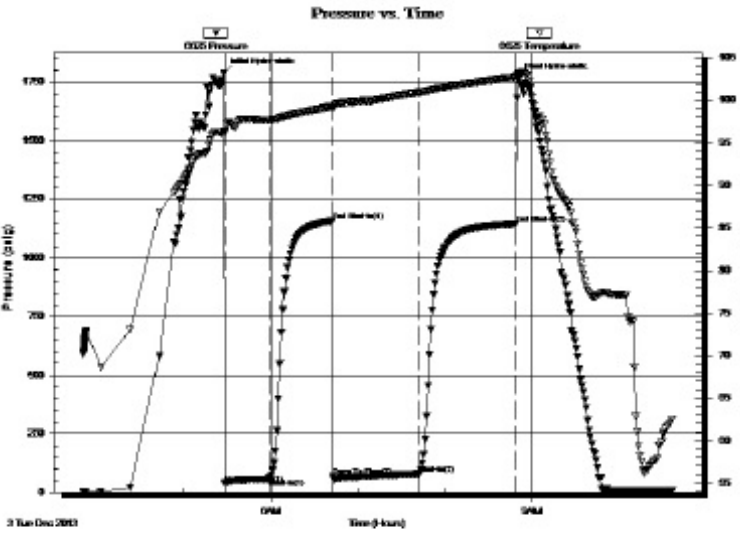
ATTN: Chris Neeley Test Start: 2013.12.03 @ 03:50:36

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: **05:27:36**
 Time Test Ended: **10:36:36**
 Interval: **3556.00 ft (KB) To 3614.00 ft (KB) (TVD)**
 Total Depth: **3614.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole (Reset)**
 Tester: **Jeff Brown**
 Unit No: **67**
 Reference Elevations: **2034.00 ft (KB)**
2026.00 ft (CF)
 KB to GR/CF: **8.00 ft**

Serial #: 6625 **Outside**
 Press@RunDepth: **80.78 psig @ 3593.00 ft (KB)**
 Start Date: **2013.12.03** End Date: **2013.12.03**
 Start Time: **03:50:37** End Time: **10:36:36**
 Capacity: **8000.00 psig**
 Last Calib.: **2013.12.03**
 Time On Btm: **2013.12.03 @ 05:27:06**
 Time Off Btm: **2013.12.03 @ 08:49:36**

TEST COMMENT: IFP=Fair blow built to 7 in
 IS=Dead no blow back
 FFP=Good blow BOB in 31 min
 FSI=Weak surface blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1788.14	96.38	Initial Hydro-static
1	39.88	96.14	Open To Flow (1)
32	60.54	97.69	Shut-In(1)
75	1157.64	99.30	End Shut-In(1)
76	68.31	99.10	Open To Flow (2)
135	80.78	100.90	Shut-In(2)
202	1144.90	102.80	End Shut-In(2)
203	1764.88	103.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
91.00	HOCM 40%O 60%M	1.01
27.00	Gassy Oil 10%G 90%O	0.38
0.00	126-GIP	0.00

* Recovery from multiple tests

Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST #3 3613' TO 3622' ARBUCKLE



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

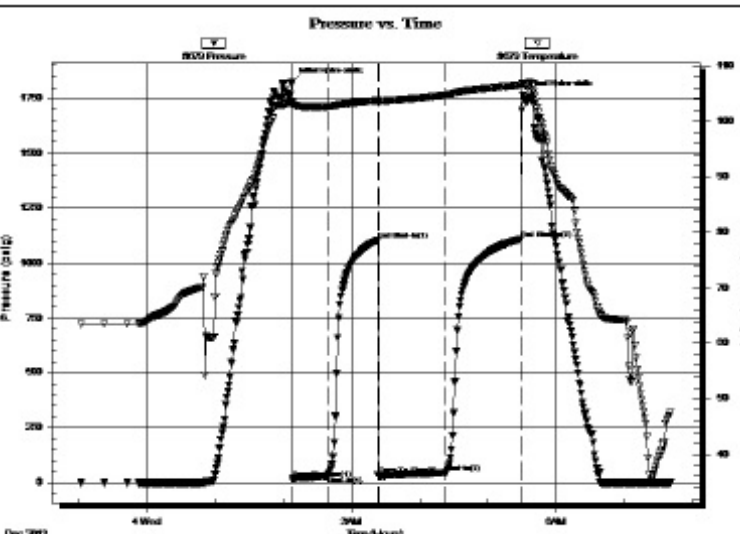
Mustang Energy Corporation **1-16s-19w**
 Po Box 1121 **Dolechek #1**
 Hays Ks 67601
 Job Ticket: 039766 **DST#: 3**
 ATTN: Chris Neeley
 Test Start: 2013.12.03 @ 23:02:04

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: **02:07:57**
 Time Test Ended: **06:54:57**
 Interval: **3613.00 ft (KB) To 3622.00 ft (KB) (TVD)**
 Total Depth: **3680.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Straddle (Reset)**
 Tester: **Jeff Brown**
 Unit No: **67**
 Reference Elevations: **2034.00 ft (KB)**
2026.00 ft (CF)
 KB to GR/CF: **8.00 ft**

Serial #: 8679 **Inside**
 Press@RunDepth: **43.82 psig @ 3618.00 ft (KB)**
 Start Date: **2013.12.03** End Date: **2013.12.04**
 Start Time: **23:02:27** End Time: **07:39:57**
 Capacity: **8000.00 psig**
 Last Calib.: **2013.12.04**
 Time On Btm: **2013.12.04 @ 02:07:27**
 Time Off Btm: **2013.12.04 @ 05:30:57**

TEST COMMENT: IFP=Fair blow built to 5 in
 IS=Weak surface blow back built to 1/4 in
 FFP=Fair blow built to 7 in
 FSI=Weak surface blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1822.22	103.40	Initial Hydro-static
1	14.34	102.86	Open To Flow (1)
32	29.19	102.61	Shut-In(1)
76	1101.77	103.74	End Shut-In(1)
76	32.60	103.24	Open To Flow (2)
135	43.82	104.72	Shut-In(2)
202	1107.66	106.62	End Shut-In(2)
204	1764.05	106.77	Final Hydro-static

Recovery			Gas Rates		
Length (ft)	Description	Volume (bbl)	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
60.00	HOCGM 10%G 30%O 60%M	0.58			
10.00	GMCO 5%G 20%M 75%O	0.14			
15.00	Gassy Oil 20%G 80%O	0.21			
0.00	94=GIP	0.00			

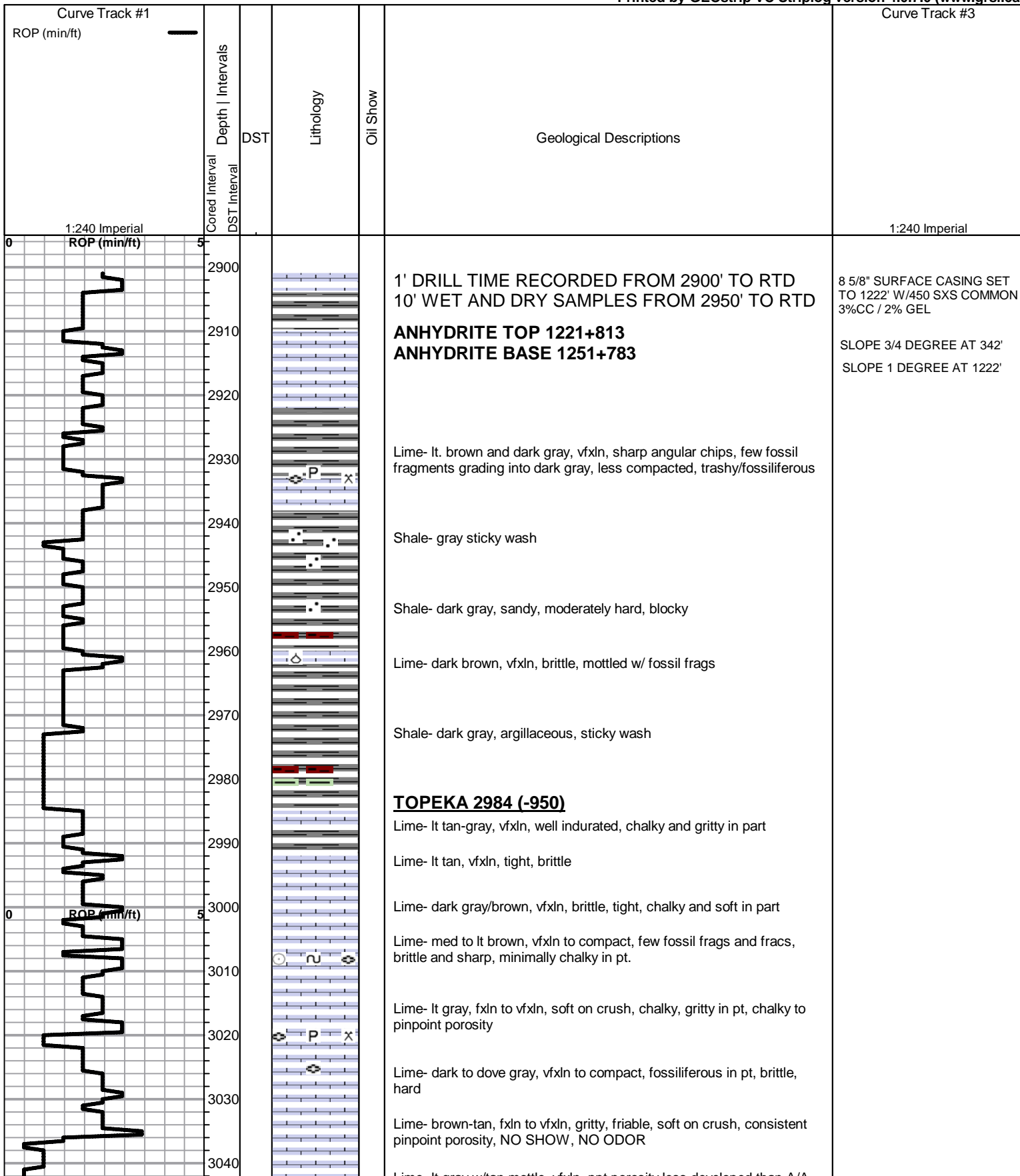
* Recovery from multiple tests

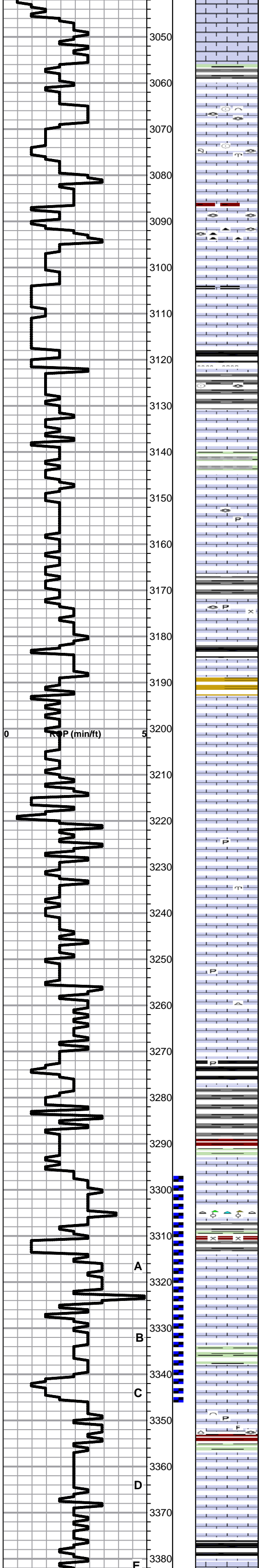
ROCK TYPES					
	Cht		Dol Lime		shale, gry
	Cht vari		Lmst fw7+		Carbon Sh
	Dolprim		shale, grn		shale, red
					Shcol
					Ss

ACCESSORIES		
MINERAL	FOSSIL	STRINGER
▲ Chert, dark	∧ Bioclastic or Fragmental	~~~~ Chert
∟ Dolomitic	⊕ Brachiopod	— Shale
∩ Glauconite	∩ Bryozoa	— green shale
P Pyrite	∩ Coral	— red shale
• Sandy	○ Crinoids	— carb shale
△ Chert White	F Fossils < 20%	
Me Mica	⊕ Oolite	
	X Sponge Spicules	
	⊕ Oomoldic	
	⊕ Fossilinid	

OTHER SYMBOLS	
MISC	DST
Daily Report	DST #1
Digital Photo	DST #2
Document	DST #3
Folder	DST #4
Link	
Vertical Log File	
Horizontal Log File	
Core Log File	
Drill Cuttings Rpt	

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Lime- lt gray w/tan mottie, vfxln, ppt porosity less developed than A/A, soft on crush

Lime- dark gray, vfxln, tight, very well compacted

Lime- A/A, Shale- dark gray, green, few chips of black thinly laminated

Lime- tan/gray, vfxln, fossiliferous, well compacted, brittle, some dark gray bedded, fossiliferous chert, significant amount of chalky wash

Lime- tan, fxl, chaotic bedding, soft on crush, fossiliferous, good pinpoint porosity

Lime- tan, vfxln, well compacted, tight, hard, brittle

Lime- tan, fxl, cherty in part, pinpoint porosity, hard on crush

Lime- tan, fxl, fossiliferous, soft on crush, pinpoint porosity

Chert- dark gray, fossiliferous

Lime- fxl, chaotic bedding, trashy, chalky in pt, soft on crush

Lime- tan, vfxln, friable, chalky, soft on crush, consistent pinpoint porosity, some thinly laminated with dark gray shale

Shale- black, hard, carbonaceous, laminated

Lime- tan to cream, compact, cherty luster, very tight

Shale- dove gray, micaceous, sticky and soft; brick red, hard, platy

Lime- A/A, significant increase of tight, clean, barren

Shale- thinly laminated green and gray

Chalk- significant amounts of cream/tan, sticky

Lime- lt gray-tan, vfxln, hard, brittle, tight

Lime- lt gray, vfxln, some chips packed with fusulinids, brittle, hard on crush, some chalky margins

Lime- cream, vfxln, tight, brittle; cream, fxl, chalky in part, consistent pinpoint porosity,

Shale- dove gray, sandy; green, sticky wash

Lime- tan/gray, dark flecks, fxl to vfxln, very well compacted, fossil frags, slightly chety in pt, rare scattered pinpoint porosity

Lime- tan, fxl, moderately compacted, granular, slightly chalky consistent good pinpoint porosity, FAINT SCUM OIL ON CUP, LT BROWN STN IN PORES, NO ODOR, NO OIL ON CRUSH, DULL FLOR, GOOD STRM CUT

Shale- varicolored

Lime- A/A w/improving show-FREE OIL IN CUP, NO ODOR, OIL ON CRUSH

Lime- gray, vfxln, well compacted, pisolitic, chalky and soft in part, some pisolitic chert chips

Lime- lt brown, fxl, trashy, dissolution porosity, intergranular/pinpoint porosity, rotted appearance, soft on crush, FREE OIL ON CRUSH, DARK BROWN STAIN, DULL FLOR, SLOW CUT, NO ODOR

Lime- gray, vfxln, little visible porosity, well compacted, hard on crush; tan, some packstones w/intergranular porosity, hard to crush

Lime- tan, fxl to mxln, good pinpoint porosity, some oomoldic porosity, brittle, SPOTTY BROWN STAIN, FEW CHIPS FREE OIL ON CRUSH, NO ODOR

Lime- tan, fxl, brittle, soft on crush, pinpoint porosity; pulverized oomildic A/A

Lime- tan, fxl, packstone, oolitic/pisolitic in part, grain supported, well cemented

Lime- gray, vfxln to compact, tight, brittle, hard on crush

HEEBNER 3272 (-1238)

Shale- Black, hard, laminated, pyritic, carbonaceous

Lime- medium brown, vfxln, scattered pinpoint porosity, FAINT SHOW

Shale- gray, platy, blocky, waxy, green, sticky

Shale- red and green bedded, waxy

TORONTO 3292 (-1258)

Lime- tan, vfxln, consistent pinpoint porosity w/SPOTTY TO EVEN STAIN, NO OIL ON CRUSH, NO ODOR

Lime- cream, vfxln, clean, barren, tight

chert- brown/tan oolitic, very brittle

Shale- gray, varicolored

LKC 3317 (-1283)

Lime- tan to cream, translucent/oomoldic in pt, well cemented w/pinpoint porosity in pt. SPOTTY STAIN, GOOD ODOR, VSMALL AMOUNT OF OIL ON CRUSH, sample pulverized.

Lime- cream oomoldic, BROWN STAIN IN MOLDS, FEW DROPS OIL IN CUP, FAINT ODOR, chips pulverized, oil possibly washed

Shale- sticky gray, soft, waxy green

Lime- A/A, increasing amounts, and size, INCREASE OF OIL IN CUP, INCREASE IN OIL ON CRUSH, STRONG ODOR, SOME DEAD OIL STAIN

Lime- gray-green, vfxln, mud supprted packstone, fossiliferous

Lime- tan, packstone, fusulinids, pisoids, oolites, good intragranular porosity, fair intergranular porosity, SPTTY TO SAT STN/PORES, DULL FL, GOOD WT STRM CT, NO OIL/CRUSH, NO TO FAINT ODOR

Lime- tan to cream, compact to vfxln, chalky in pt, mostly tight, scattered porosity w/ FAINT STN, NO OIL/CRUSH, GOOD ODOR

Lime- gray, fxl, trashy in pt. soft on crush, chalky porosity

Shale- lots of black, dark gray, green, splintery, mud problems, were noted, carry over

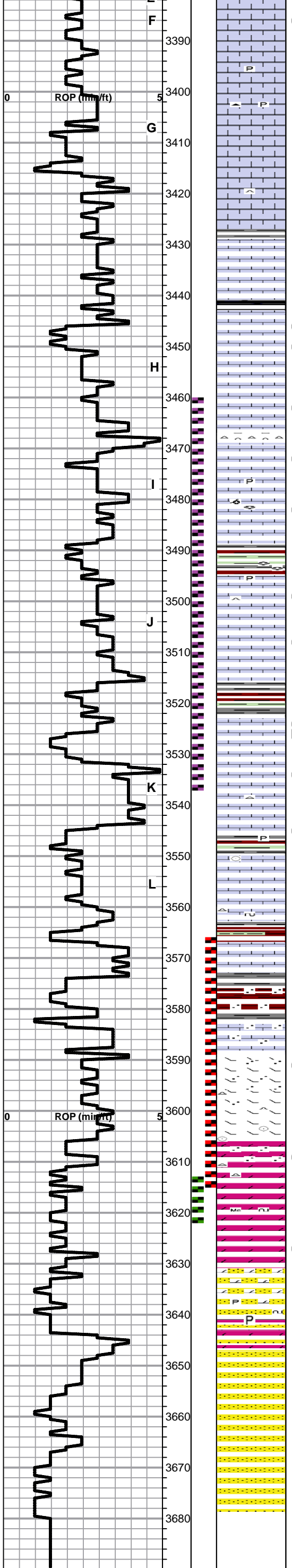
[DRILL STEM TEST #1](#)
3297'-3348'
30-45-45-60

IFP: 34-47 WB BLT TO 3 1/4"
ISIP: 846 NO BLOW BACK
FFP: 48-54 WB BLT TO 3"
FSIP: 821 WSB

[RECOVERY](#)

55' MUD WITH OIL SPOTS

SLOPE 1 1/4 DEGREE AT 3348'
STRAP 0.36' LONG AT 3448'



Lime- cream-tan, fossiliferous oolitic/pisolitic packstone, brittle, chalky in part, scattered good porosity, GOOD ODOR/ODOR ON CRUSH, OIL/CRUSH, FREE OIL, LT BROWN STAIN

Lime- gray-brown, vfxln to fxln, tight; significant chalk
Shale- gray, waxy; green hard; deep red, slick

Lime- tan, vfxln, clean, barren, tight, very well consolidated

Shale- dark gray, red, green

Lime- gray-tan, compact, no visible porosity, sharp angular pieces

Lime- A/A, some with chalky margins

Shale- black carbonaceous, green with black stringers, dark gray
Lime- cream-tan, vfxln, brittle, soft on crush, consistent pinpoint to vuggy porosity, LT BROWN STAIN

Lime- tan, vfxln, bands of pinpoint to vuggy porosity, some oolitic chips, otherwise very hard and tight, BROWN STAIN IN PORES, GOOD ODOR, OIL IN CUP, OIL ON CRUSH

Shows and reservoirs as above
Shale- dark gray, red

Lime- cream to lt tan, vfxln, good pinpoint to vuggy porosity, EVEN DARK BROWN TO BLACK STAIN IN PORES, NO OIL ON CRUSH, SCUM OIL IN CUP, GOOD ODOR

Lime- tan, vfxln, pinpoint to moldic porosity, STAINING IN PORES, FREE OIL IN CUP, OIL ON CRUSH, FAIR ODOR

Shale- red, green, sticky wash, gray platy

Lime- lt gray, dark gray, green tinted from shale, fxln, hard

Lime- medium brown, compact, massive in pt, fossiliferous, chalky, soft on crush in pt FEW CHIPS DARK BROWN STAIN

Lime- A/A, chips stained or tinted green near shale boundary, increase in oolitic/fossiliferous chips with stain

Lime- tan, fxln, oolitic, slightly oomoldic in pt, SPOTTY STAIN IN PORES, FREE OIL ON CRUSH, SOME CHIPS BLEED OIL, FAIR ODOR, SOME DEAD OIL

Chert- flesh, spiculitic, some weathered
Lime- tan-gray, vfxln, primarily tight and barren, some chips slightly vuggy, spotty to even stain, minimal oil on crush, scum in cup

Lime- tan to cream, vfxln, chalky w/pinpoint porosity throughout, soft on crush, brittle and easy to break, few chips with SPOTTY LT STAIN, MINIMAL OIL ON CRUSH

Shale- gray, green, red w/red wash; tinted lime and chert
Lime- shows and reservoir A/A; cream, fxln, tinted green through red at shale boundary, moderate compaction, hummucky bedding, slightly conglomeritic

BASE LKC 3563 (-1529)
Lime- cream to tan, fxln, sucrosic in part NO ODOR NO SHOW
Lime- tan, vfxln, chalky/chalky porosity
Shale- wavy laminated green, red and gray, waxy
Shale- gray and red, blocky and sandy

MARMATON 3590 (-1556)
Lime- cream, tinted green to gray in part, fxln, sucrosic, few chips sandy; one chip of bright orange chert

Dolomitic Lime- white, vfxln, well compacted, hard on crush, SOME CHIPS BROWN SAT STAIN, OIL BUBBLES WITH ACID, STRONG ARBUCKLE-LIKE ODOR, OIL ON CRUSH

ARBUCKLE 3606 (-1571)
Dolomite- medium brown, fxln, sandy in pt, friable, SPOTTY PINPOINT STAIN TO SCATTERED SAT STAIN, BLEEDING OIL, OIL ON CRUSH, OIL IN CUP, STRONG ODOR

Sandstone resulting from dissolution of dolomite, clear quartz grains, mxln-fxln, subangular, moderate sorting, some fused grains, moderately cemented, some clusters more friable, SMALL AMOUNT OF OIL ON CRUSH, GOOD ODOR/ODOR ON CRUSH

Dolomitic sand/sandy dolomite- tan dolomitic matrix, clear quartz, subangular, poorly sorted, moderately well indurated

REAGAN SAND 3647 (-1613)
Sample appears to be A/A, but several loose, fxln-mxln, well-rounded, frosted quartz grains indicate reagan top

Sand few clusters of frosted white, moderately well sorted, quartz grains
Sand- white, well sorted, frosted, fxln, well rounded, white dolomitic cement

DRILL STEM TEST #4
3460'-3538'
15-30-30-45

IFP: 24-45 SB BOB IN 5 MIN
ISIP: 1168 WSB BUILT TO 1/8"
FFP: 44-98 SB BOB IN 30 SEC
FSIP: 1175 WSB BUILT TO 1 3/4"

RECOVERY
60' MCOG 15%G, 15%M, 70%O
94' HOCGM 10%G, 40%O, 50%M
1165' GIP

SEE CHART BELOW

DRILL STEM TEST #2
3556'-3614'
30-45-60-60

IFP: 40-61 FB BUILT TO 7"
ISIP: 1158 NO BLOW BACK
FFP: 68-81 BOB 30 MINUTES
FSIP: 1145 WSB

RECOVERY
91' HOCM 40%O, 60%M
27' GASSY OIL 10%G, 90%O
126' GIP


SLOPE: 2 DEGREES AT 3614'

DRILL STEM TEST #3
3613'-3622'
30-45-60-60

IFP: 14-29 FB BUILT TO 5"
ISIP: 1102 WSB BUILT TO 1/4"
FFP: 33-44 FB BUILT TO 7"
FSIP: 1108 WSB

RECOVERY
60' HOCGM 10%G, 30%O, 60%M
10' GMCO 5%G, 75%O, 20%M
15' GASSY OIL 20%G, 80%O
94' GIP

SLOPE: INVALID RESULT AT 3680'

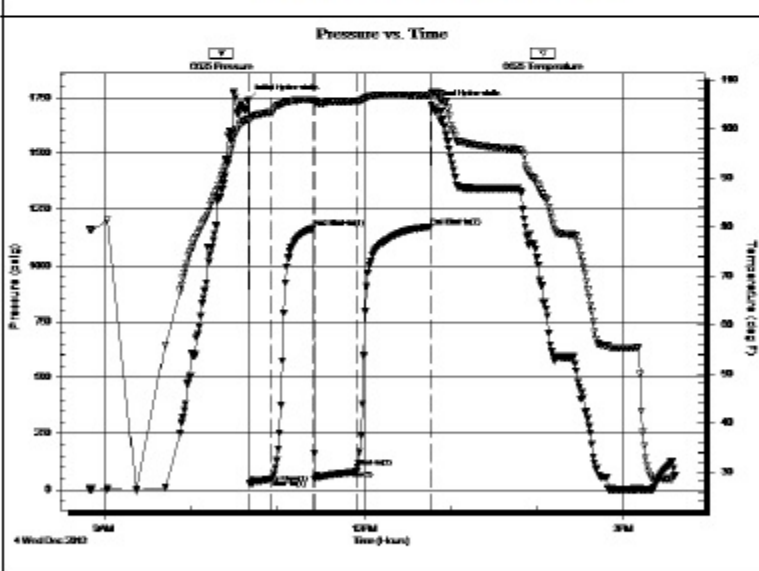
	DRILL STEM TEST REPORT	
	Mustang Energy Corporation Po Box 1121 Hays Ks 67601 ATTN: Chris Neeley	1-16s-19w Dolechek #1 Job Ticket: 039767 DST#: 4 Test Start: 2013.12.04 @ 08:50:25

GENERAL INFORMATION:

Formation: KLC-I-J-K	Test Type: Conventional Straddle (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Jeff Brown
Time Tool Opened: 10:40:55	Unit No: 67
Time Test Ended: 15:51:55	
Interval: 3460.00 ft (KB) To 3538.00 ft (KB) (TVD)	Reference Elevations: 2034.00 ft (KB)
Total Depth: 3681.00 ft (KB) (TVD)	2026.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good	KB to GR/CF: 8.00 ft

Serial #: 6625 Inside	Capacity: 8000.00 psig
Press@RunDepth: 98.33 psig @ 3529.00 ft (KB)	Last Calib.: 2013.12.04
Start Date: 2013.12.04 End Date: 2013.12.04	Time On Btn: 2013.12.04 @ 10:40:25
Start Time: 08:50:26 End Time: 15:34:55	Time Off Btn: 2013.12.04 @ 12:46:55

TEST COMMENT: IFF=Strong blow BOB in 5 min
 ISI=Weak surface blow back built to 1/8 in
 FFP=Strong blow BOB in 30 sec
 FSI=Weak blow back built to 1-3/4 in



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1739.12	101.89	Initial Hydro-static
1	24.42	101.68	Open To Flow (1)
16	45.50	103.27	Shut-In(1)
45	1168.20	105.88	End Shut-In(1)
46	44.43	105.47	Open To Flow (2)
75	98.33	105.68	Shut-In(2)
126	1174.82	106.84	End Shut-In(2)
127	1717.76	107.21	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
60.00	MCOG 15%G 15%M 70%O	0.58
94.00	HOCGM 10%G 40%O 50%M	1.32
0.00	1165=GIP	0.00

* Recovery from multiple tests

Gas Rates			
	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)