KOLAR Document ID: 1605329

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	SecTwpS. R □East □ West
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from _ East / _ West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
☐ Oil ☐ WSW ☐ SWD	Elevation: Ground: Kelly Bushing:
☐ Gas ☐ DH ☐ EOR	Total Vertical Depth: Plug Back Total Depth:
☐ OG ☐ GSW	
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
☐ Deepening ☐ Re-perf. ☐ Conv. to EOR ☐ Conv. to SWD	Drilling Fluid Management Plan
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer	(Data must be collected from the Reserve Pit)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:	Dewatering method used:
Dual Completion Permit #:	
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Operator Name:
GSW Permit #:	Lease Name: License #:
	Quarter Sec TwpS. R
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	County: Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY									
Confidentiality Requested									
Date:									
Confidential Release Date:									
Wireline Log Received Drill Stem Tests Received									
Geologist Report / Mud Logs Received									
UIC Distribution									
ALT I II Approved by: Date:									

KOLAR Document ID: 1605329

Page Two

Operator Name: _				Lease Name:			Well #:		
Sec Twp.	S. R.	E	ast West	County:					
	flowing and shu	ut-in pressures, v	vhether shut-in pre	ssure reached st	atic level, hydrosta	tic pressures, bot		val tested, time tool erature, fluid recovery,	
Final Radioactivity files must be subm						iled to kcc-well-lo	gs@kcc.ks.gov	v. Digital electronic log	
Drill Stem Tests Ta			Yes No			on (Top), Depth ar		Sample	
Samples Sent to 0	Geological Surv	/ey	Yes No	Na	me		Тор	Datum	
Cores Taken Electric Log Run Geologist Report / List All E. Logs Ru	_		Yes No Yes No Yes No						
		B	CASING eport all strings set-c		New Used	ion, etc.			
Purpose of Strir		Hole illed	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives	
			ADDITIONAL	CEMENTING / SO	UEEZE RECORD				
Purpose:		epth T Bottom	ype of Cement	# Sacks Used	sed Type and Percent Additives				
Perforate Protect Casi Plug Back T									
Plug Off Zor									
Did you perform a Does the volume Was the hydraulic	of the total base f	fluid of the hydrauli		_	=	No (If No, sk	ip questions 2 an ip question 3) out Page Three	,	
Date of first Product Injection:	tion/Injection or R	esumed Production	Producing Meth	nod:	Gas Lift 0	Other (Explain)			
Estimated Production Per 24 Hours	on	Oil Bbls.					Gas-Oil Ratio	Gravity	
DISPOS	SITION OF GAS:		N	METHOD OF COMP	LETION:			DN INTERVAL: Bottom	
	Sold Used	I on Lease	Open Hole			mmingled mit ACO-4)	Тор	BOROTT	
,	,			B.11 B1					
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid,	Fracture, Shot, Cer (Amount and Kind	menting Squeeze I of Material Used)	Record	
TUBING RECORD:	: Size:	Set	Δ+-	Packer At:					
TODING RECORD:	. 3126.	Set	n.	i donei Al.					

Form	ACO1 - Well Completion			
Operator	Thoroughbred Associates L.L.C.			
Well Name	MILLER FARMS 32-1			
Doc ID	1605329			

All Electric Logs Run

Dual Induction	
Neutron	
Micro	
Sonic	

Form	ACO1 - Well Completion				
Operator	Thoroughbred Associates L.L.C.				
Well Name	MILLER FARMS 32-1				
Doc ID	1605329				

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Conductor	25	13.375	48	80	common	200	
Surface	12.25	8.625	25	690	H- Lite/class A	400	



Customer	Thoroughbred Ass	ociates LLC	Lease & Wel	# Miller Far	ms 32-1				Date	10	/30/2021
Service District	Pratt Kansas		County & Sta	te Comanch	e Kansa	Legals S/T/R	32-31s	-18w	Job#		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Job Type	surface	PROD	עאו 🗌	SWD		New Well?	✓ YES	□ No	Ticket#	,	vp-2039
Equipment #	Driver		Job Safety Analysis - A Discussion of Hazards & Safety Procedures								
916	M Brungardt	✓ Hard hat		✓ Gloves		.5.	Lockout/Ta		☐ Warning Sig	ns & Elagging	
179/522	R Osborn	✓ H2S Monito	r	✓ Eye Pr	otection		Required Pe		Fall Protection		j -
181/533	R valdez	✓ Safety Footy	vear	Respir	atory Prot	tection	✓ Slip/Trip/Fa	ll Hazards	Specific Job	Sequence/Ex	pectations
*		✓ FRC/Protecti	ve Clothing	Additi	onal Chen	nical/Acid PPE	✓ Overhead H		✓ Muster Point		
		Hearing Pro	tection	✓ Fire Ex	ctinguishe	r	Additional	concerns or i	ssues noted below	<i>r</i>	
						Con	ments				
Product/ Service					The second						
Code	LELEVA TO	Desc	cription			Unit of Measure	Quantity	No. 1			Net Amount
cp050	H-Lite					sack	250.00				\$2,925.00
ср010	Class A Cement					sack	150.00				\$2,295.00
cp100	Calcium Chloride					lb	936.00				\$631.80
cp120	Cello-flake					lb	39.00				\$61.43
	8 5/8" Baffle					ea	1.00				\$135.00
	8 5/8" Rubber Plug					ea	1.00				\$157.50
The second second	8 5/8" Centralizer					ea	2.00		\$162		
cp180	Sugar					lb	100.00				\$270.00
m015	Light Equipment Mile					mi	55.00				\$99.00
m010	Heavy Equipment M	lileage				mi	55.00				\$198.00
m020	Ton Mileage	4000		,		tm	987.00				\$1,332.45
d011 c050	Depth Charge: 501'-					job	1.00		ļ		\$1,125.00
6000	Cement Plug Contai	iner				job	1.00				\$225.00
					-		-				
				****	-						
			9136 12						 		
			7								
Custo	mer Section: On the	e following scale l	now would you ra	ite Hurricane S	ervices In	ic.?				Net:	\$9,617.18
							Total Taxable	\$ -	Tax Rate:		$>\!\!<$
Ва	sed on this job, hov		would recomme	nd HSI to a co	olleague?		State tax laws dea		ducts and services	Sale Tax:	\$ -
υ		3 4 5	6 7	8 9		mely Likely		s relies on the pove to make a	customer provided determination if	Total:	\$ 9,617.18
									Mark Brung	ardt	
TERMS: Cash in adva	nce unless Hurricane S	Services Inc. (HSI) h	as approved credit	prior to sale. Cr	edit terms o	of sale for approved	accounts are total	invoice due o	n or before the 30th	day from the d	ate of invoice, Past

Textures: Cash in advance unless Hurncane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due act the rate of 1½% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revokation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. DISCLAIMER NOTICE: Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and properly while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

Saw Gon Signature



	REA	TMENT	REPO	RT		理计学机会数据		
fo				ssociates L	LC Well:	Miller Farms 32-1	Ticket:	wp-2039
4000		Coldwater Kansas		County:	Comanche Kansas	Date:	10/30/2021	
	-	Bobby Patton			S-T-R:	32-31s-18w	Service:	surface
Down	hole In	formation	+ 1		Calculated Slu	ry - Lead	Calcul	ated Slurry - Tail
Hole	1000	12 1/4 i		8	Blend:	H-Lite	Blend:	A 2% cc
ole D	epth:	690 f	t		Weight:	12.5 ppg	Weight:	15.6 ppg
asing	Size:	8 5/8 i	n		Water / Sx:	10.7 gal / sx	Water / Sx:	5.2 gal / sx
ing D	epth:	671 1	it		Yield:	1.98 ft ³ / sx	Yield:	1.20 ft ³ / sx
ing / L	iner:		n		Annular Bbls / Ft.:	bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
D	epth:	19	ft		Depth:	ft	Depth:	ft
ol / Pa	cker:			Ĭ	Annular Volume:	0.0 bbls	Annular Volume:	0 bbls
Tool D	epth:		ft		Excess:		Excess:	
placei	nent:	39.0	bbis		Total Slurry:	88.0 bbls	Total Slurry:	32.0 bbls
			STAGE	TOTAL	Total Sacks:	250 sx	Total Sacks:	150 sx
ME	RATE	PSI	BBLs	BBLs	REMARKS			
30 PM					on location job and safet	у		
45 PM					spot trucks and rig up			
					centralizers 1 & 2			
30 PM					start casing in the hole on bottom and circulate			
00 AM				-	on bottom and circulate			
10 AM					stat cement			
	5.5	300.0	5.0	5.0	fresh water			
	5.5	300.0	88.0	93.0	mix 250 sacks H lite			
	5.5	300.0	32.0	125.0	mix 150 A 2% cc			
:35 AM					cement in and shut dow	n pump		
:40 AM	4.0	100.0			start displacement			
	3.0	100.0	30.0		slow rate			
:00 AM	3.0	500.0	39.0		bump plug at 39 bbls an	d 500 psi		
					cement did circulate			
			17.5					
	-							
			-					
		CREV	V		UNIT	多 体系数。	SUMMAR	
Ce	menter	МВ	rungardt		916	Average Rate	Average Pressure	Total Fluid
ump O	perator	RO	sborn		179/522	4.4 bpm	267 psi	194 bbls
	Bulk #1	Rv	aldez		181/533			

ftv: 15-2021/01/25 mplv: 201-2021/09/15



Customer	THOROUGHBRE	D ASSOCIATES LI	Lease & Well #	MILLER FARMS	32-1	W. C.		Date	-	1/8/2021
Service District	PRATT		County & State	COMANCHE KS	Legals S/T/R	33-318	5-18W	Job#		
Job Type	PLUG TO ABAN	☑ PROD	□ INJ	□ SWD	New Well?	☑ YES	□ No	Ticket#		WP2067
Equipment#	Driver		· · · · · · · · · · · · · · · · · · ·	Job Safety Ar	nalysis - A Discus	sion of Hazards	& Safety Pr	The state of the s		VVP2007
912	MATTAL	☐ Hard hat		☑ Gloves	9.751	□ Lockout/Tag		□ Warning Sign	e & Classins	
176/522	OSBORN	☐ H2S Monitor		☑ Eye Protection		☐ Required Per		□ Fall Protectio		
181/256	RUEBEN	☑ Safety Footwea	ar	☐ Respiratory Pro	tection	☐ Slip/Trip/Fall		☐ Specific Job S		octations
		☑ FRC/Protective	Clothing	☐ Additional Cher	nical/Acid PPE	□ Overhead Ha		☐ Muster Point,		
		☐ Hearing Protec	tion	☐ Fire Extinguishe	r :			sues noted below	Triculcul Loca	1110113
					Cor	nments				
Product/ Service Code		Desc	ription	。 在表	Unit of Measure	Quantity		The second	i pleum	Net Amount
	 									
	 						-			
			****		-	<u> </u>	-			
					 				-	
CP055	H-Plug				sack	222.22				
MO15	Light Equipment M	ileage			mi	220,00				\$2,574.00
MOSO	Heavy Equipment			2011	mi	55,00				\$99.00
Mi020	Ton Mileage				tm	521.DD		-	-	\$198.00
D016	Depth Charge: 500	1'-6000'	4 112		job	1,00				\$703.35
										\$2,700.00
9999	CEMENT EQUIPT	MENT STAND BY	TIME		HR	5.00			†	\$945.00
	1									- 4040.00
									1	
		-								
										11000
		-								
		a 5000								
						7. ESE ESE				
		70								
Custo	omer Section: On the	ne following scale he	ow would you rate	Hurricane Services	nc.?			 		
						Total Taxable	\$ -	Tay Pate	Net:	\$7,219.35
Ва	sed on this job, ho	w likely is it you w	ould recommend	HSI to a colleague	?			Tax Rate: ducts and services	Sale Tax:	\$.
	Inlikely 1 2	3 4 5				used on new wells	to be sales to s relies on the	ax exempt. customer provided	Cuie Tax.	-
		3 4 5	6 7 8	9 10 Ext	remely Likely	services and/or pr	oducts are tax	c exempt,	Total:	\$ 7,219.35
TERMS: Cook in ad-	nee unless thinks	0	·			HSI Represe		Mike Matta	50	
due accounts shall now	interest on the belone	pervices inc. (HSI) ha	s approved credit pri	or to sale. Credit terms	of sale for approved	accounts are total	invoice due o	n or before the 30th	day from the da	ate of invoice. Past

due accounts shall pay interest on the balance past due at the rate of 1 ½% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. DISCLAIMER NOTICE: Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions at atted above, and Hurricane has been provided accurate well information in determining taxable services.

CUSTOMER AUTHORIZATION SIGNATURE



_	REAT	MENT F	REPOR	T. A. H.					WP2067
om	er: TH	OROUG	HBRED	ASSOCIATI	ES LLC Well:		R FARMS 32-1	Ticket:	
V. Sta	te: CC	LDWAT	ER KS		County:	COI	MANCHE KS	Date:	11/8/2021
Field R					S-T-R:	3	3-31S-18W	Service:	PLUG TO ABAN
								Calcula	ted Slurry - Tail
Downho	le Info	rmation			Calculated Slur	H-PLUG		Blend:	
Hole Si		in			Blend:			Weight:	ppg
lole Dep	th:	ft			Weight:	13.8 ppg		Water / Sx:	gal / sx
asing S	ze:	in			Water / Sx:	6.9 gal / s		Yield:	ft³/sx
sing De	oth:	ft			Yield:	bbs/		Annular Bbls / Ft.:	bbs / ft.
bing / Li	ner:	in	1		Annular Bbls / Ft.:	ft	<u></u>	Depth:	ft
De	pth:	ft			Depth:			Annular Volume:	0 bbls
ool / Pac	ker:				Annular Volume:	0.0 bbls		Excess:	
Tool De	pth:	ft			Excess:	FC 0 1-1-1		Total Slurry:	0.0 bbls
splacem	ent:	b	bls		Total Slurry:	56.0 bbls		Total Sacks:	#DIV/0! sx
			TAGE	TOTAL	Total Sacks:	200 sx	NEW TOTAL		
IME R	ATE	PSI	BBLs	Market No.	EMARKS	كاب الاستهام			
3:00 AM			-		ON LOCATION RUN DRILL PIPE TO 600	10'			
9:05 AM	-				1ST PLUG AT 6000'				
-	-		2002.000		PUMP 15 BBL WATER				
2:44 PM	5.0	330.0	15.0	15.0	MIX 50 SKS H-PLUG				
2:48 PM	3.3	260.0	12.2	27.2	The second of th				
1:01 PM	3.0	150.0	3.0	30.2	PUMP 3 WATER	-			
1:02 PM	3.0	150.0	73.0	103.2	PUMP 73 MUD 2ND PLUG AT 730'				
				103.2	PUMP 10 BBL WATER				
5:35 PM	4.0	130.0	10.0	113.2	MIX 50 SKS H-PLUG				
5:41 PM	3.9	120.0	12.2	125.4	PUMP 3 BBL WATER				
5:46 PM	3.0	100.0	3.0	128.4	3RD PLUG AT 300'				
				128.4	PUMP 5 BBL WATER				
6:06 PM	4.0	80.0	5.0	133.4	MIX 50 SKS H-PLUG				
6:11 PM	4.0	130.0	12.2	145.6	PUMP .5 BBL WATER				
6:15 PM	4.0	75.0	0.5	146.1	4TH PLUG AT 60'				
				146.1	MIX 20 SKS H-PLUG				
6:52 PM	3.0	100.0	5.0	151.1 151.1	CEMENT TO SURFACE				
				151.1	MIX 30 SKS H-PLUG F				
7:45 PM	1.0	25.0	7.0	163.1	MIX 20 SKS H-PLUG fo				
7:50 PM	1.0	25.0	5.0	163.1	MIN 20 ONO 11-1 250 N	*** **********************************			
	-	 	-	163.1					
	_		-	163.1					
	├		-	163.1	JOB COMPLETE, THA	NK YOU!			
	-	 	-		MIKE MATTAL				
		-	+	163.1	RILEY & RUEBEN	-			
	1-		-	163.1	KILET & KOLDEN				
		Name of Street,	Washington.	163.1	UNIT			SUMMAF	RY
		CRE		SEA STA	912		Average Rate	Average Pressure	Total Fluid
	emente		TTAL		176/522	1	3.2 bpm	129 psi	163 bbls
Pump C			BORN		181/256				
	Bulk #		EBEN		1011230	1			



Thoroughbred Associates LLC

Miller Farms 32-1

8100 E 22nd St., STE 600 Wichita, Ks. 67226

Job Ticket: 67600

Test Start: 2021.11.04 @ 10:25:19

32-31s-18w Commanche Co, Ks

ATTN: Aaron Young

GENERAL INFORMATION:

Formation: Altamont

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 14:05:19
Time Test Ended: 21:33:49

Unit No: 68

Reference Elevations:

Matt Smith

Tester:

4960.00 ft (KB) To 5014.00 ft (KB) (TVD)

2151.00 ft (KB) 2141.00 ft (CF)

DST#: 1

Hole Diameter: 7.88 inches Hole Condition: Poor

Inside

5014.00 ft (KB) (TVD)

KB to GR/CF: 10.00 ft

Serial #: 8788

Interval:

Total Depth:

Press@RunDepth: 132.82 psig @ 4961.00 ft (KB) Capacity: 8000.00 psig

 Start Date:
 2021.11.04
 End Date:
 2021.11.04
 Last Calib.:
 2021.11.04

 Start Time:
 10:25:24
 End Time:
 21:33:49
 Time On Btm:
 2021.11.04 @ 14:00:04

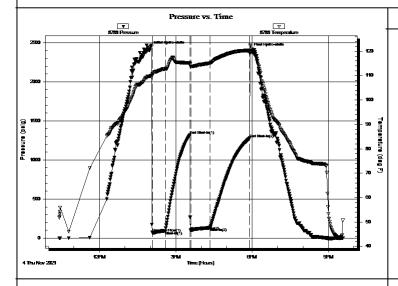
 Time Off Btm:
 2021.11.04 @ 17:56:19

TEST COMMENT: IF: Strong Blow . B.O.B. in 30 secs. Built to 208.65". (30)

ISI: Fair Blow . Built to 6.67". (60)

FF: Strong Blow . B.O.B., immediate. G.T.S. in 3 mins. Built to 181.92". Gauged Gas. (45)

FSI: Weak Blow . Built to 1.47". (90)



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2428.69	109.78	Initial Hydro-static
6	71.04	110.83	Open To Flow (1)
35	91.61	112.71	Shut-In(1)
94	1318.62	115.25	End Shut-In(1)
96	95.31	113.63	Open To Flow (2)
141	132.82	115.09	Shut-In(2)
234	1277.03	120.25	End Shut-In(2)
237	2399.14	122.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	GOWCM 29%g 20%o 9%w 42%m	0.46
120.00	GHOWCM 22%g 22%o 5%w 51%m	0.98
65.00	GHOWCM 55%g 10%o 5%w 30%m	0.91
64.00	GHOWCM 30%g 15%0 1%w 54%m	0.90
32.00	GVSOCM 20%g 1%o 79%m	0.45

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	6.23	7.72
Last Gas Rate	0.13	5.25	7.36
Max. Gas Rate	0.13	6.23	7.72



Thoroughbred Associates LLC

32-31s-18w Commanche Co, Ks

8100 E 22nd St., STE 600 Wichita, Ks. 67226

Miller Farms 32-1

Job Ticket: 67600

DST#: 1

ATTN: Aaron Young

Test Start: 2021.11.04 @ 10:25:19

Matt Smith

68

GENERAL INFORMATION:

Formation: Altamont

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 14:05:19
Time Test Ended: 21:33:49

Reference Bevations: 2151.00 ft (KB)

4960.00 ft (KB) To 5014.00 ft (KB) (TVD) 5014.00 ft (KB) (TVD)

2141.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8737
Press@RunDepth:

Outside

psig @

4961.00 ft (KB)

Capacity: 1.04 Last Calib.:

8000.00 psig

Start Date: 2021.11.04

End Date: End Time: 2021.11.04 Last Calib.: 21:34:11 Time On Btm:

2021.11.04

Start Time:

Interval:

Total Depth:

10:25:46

Time: 21:3

Time Off Btm:

Tester:

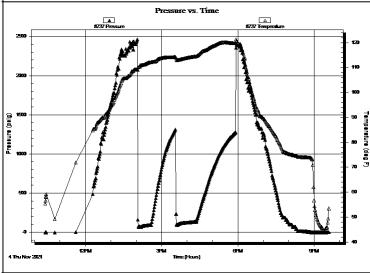
Unit No:

TEST COMMENT: IF: Strong Blow . B.O.B. in 30 secs. Built to 208.65". (30)

ISI: Fair Blow . Built to 6.67". (60)

FF: Strong Blow . B.O.B., immediate. G.T.S. in 3 mins. Built to 181.92". Gauged Gas. (45)

FSI: Weak Blow . Built to 1.47". (90)



PRESSURE SUMMARY

I	Time	Pressure	Temp	Annotation
-	(Min.)	(psig)	(deg F)	
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Recovery

Length (ft)	Description	Volume (bbl)
61.00	GOWCM 29%g 20%o 9%w 42%m	0.46
120.00	GHOWCM 22%g 22%o 5%w 51%m	0.98
65.00	GHOWCM 55%g 10%o 5%w 30%m	0.91
64.00	GHOWCM 30%g 15%0 1%w 54%m	0.90
32.00	GVSOCM 20%g 1%o 79%m	0.45

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	6.23	7.72
Last Gas Rate	0.13	5.25	7.36
Max. Gas Rate	0.13	6.23	7.72



FLUID SUMMARY

Thoroughbred Associates LLC

32-31s-18w Commanche Co, Ks

8100 E 22nd St., STE 600 Wichita, Ks. 67226

Miller Farms 32-1

Job Ticket: 67600

DST#: 1

ATTN: Aaron Young

Test Start: 2021.11.04 @ 10:25:19

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil API: deg API

Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: 8000 ppm

Viscosity: 49.00 sec/qt Cushion Volume: bbl

Water Loss: 7.99 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 8000.00 ppm Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	GOWCM 29%g 20%o 9%w 42%m	0.465
120.00	GHOWCM 22%g 22%o 5%w 51%m	0.978
65.00	GHOWCM 55%g 10%o 5%w 30%m	0.912
64.00	GHOWCM 30%g 15%0 1%w 54%m	0.898
32.00	GVSOCM 20%g 1%o 79%m	0.449

Total Length: 342.00 ft Total Volume: 3.702 bbl

Num Fluid Samples: 1 Num Gas Bombs: 1 Serial #: P-4 Matt

Laboratory Name: Laboratory Location:

Recovery Comments:



GAS RATES

DST#: 1

Thoroughbred Associates LLC

32-31s-18w Commanche Co, Ks

8100 E22nd St., STE 600 **Miller Farms 32-1**

Wichita, Ks. 67226 Job Ticket: 67600

ATTN: Aaron Young Test Start: 2021.11.04 @ 10:25:19

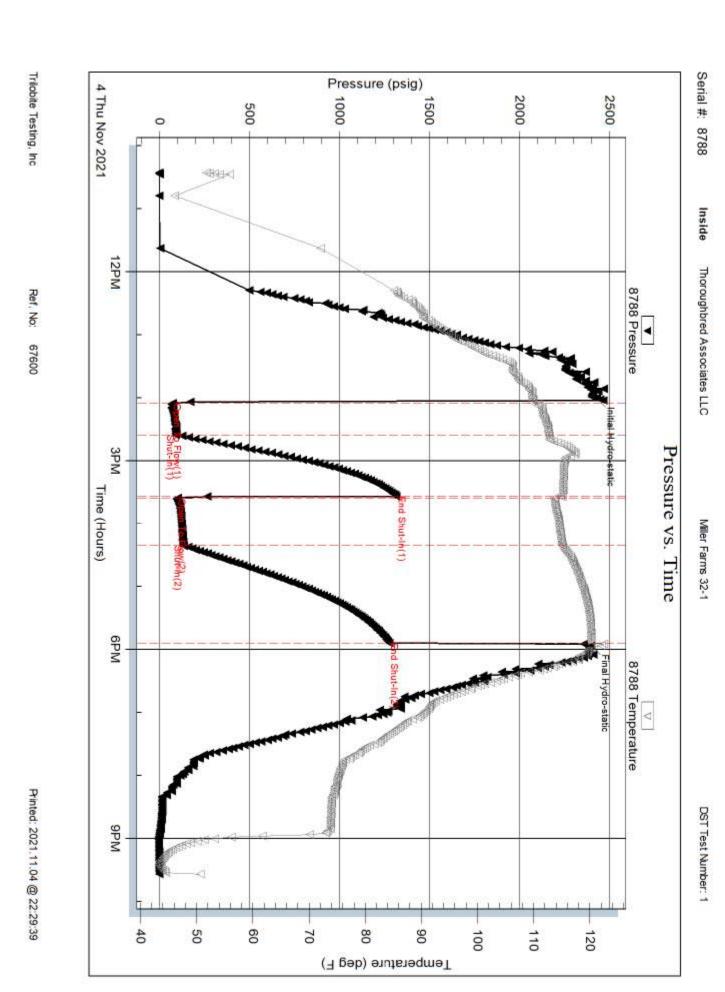
Gas Rates Information

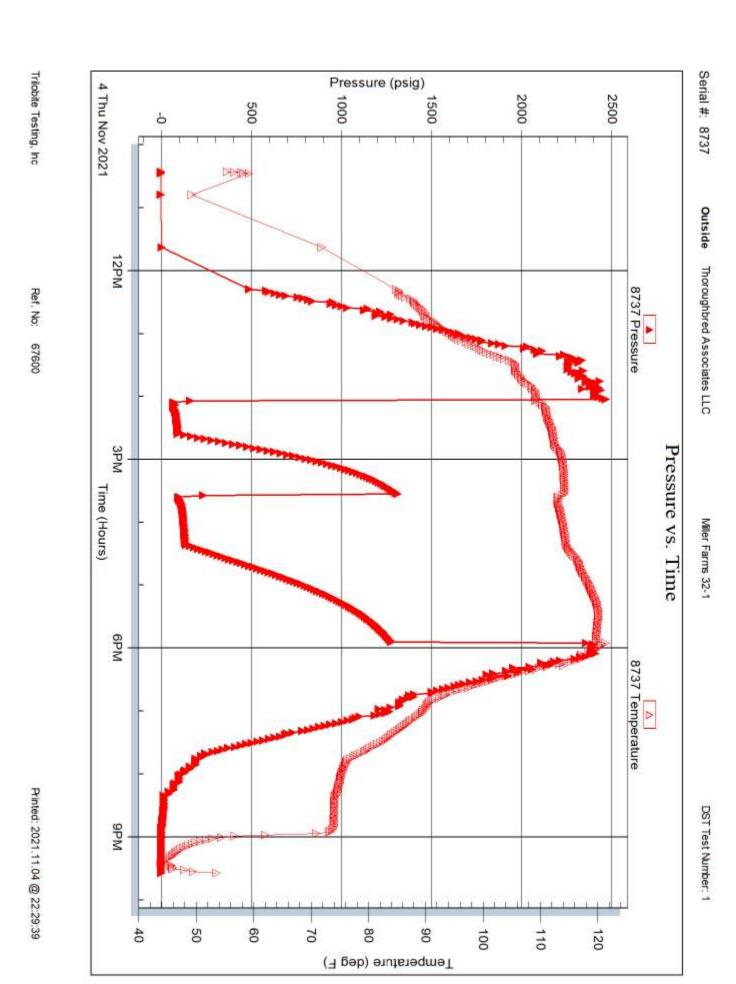
Temperature: 59 (deg F)

Relative Density: 0.65 Z Factor: 0.8

Gas Rates Table

Flow Period	⊟apsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.13	6.23	7.72
2	20	0.13	5.91	7.60
2	30	0.13	5.63	7.50
2	40	0.13	5.47	7.44
2	45	0.13	5.25	7.36







Thoroughbred Associates LLC

8100 E 22nd St., STE 600 Wichita, Ks. 67226

ATTN: Aaron Young

32-31s-18w Commanche Co, Ks

Miller Farms 32-1

Job Ticket: 67201 **DST#: 2**

Test Start: 2021.11.06 @ 08:12:39

GENERAL INFORMATION:

Formation: Viola

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:41:09 Time Test Ended: 21:23:54

Interval: 5656.00 ft (KB) To 5750.00 ft (KB) (TVD)

Total Depth: 5750.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

2151.00 ft (KB)

Reference Bevations:

2141.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8788 Inside

Press@RunDepth: 1936

Start Date:

Start Time:

1936.00 psig @ 2021.11.06

08:12:44

@ 5657.0

5657.00 ft (KB) End Date:

2021.11.06 21:23:54 Capacity: Last Calib.: 8000.00 psig

Time On Btm:

2021.11.06 2021.11.06 @ 11:38:54

Time Off Btm:

2021.11.06 @ 16:16:24

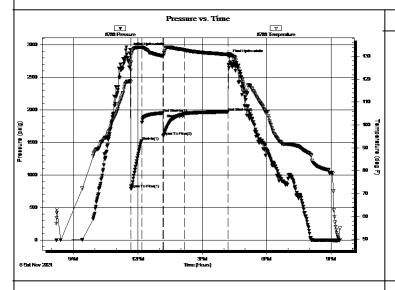
TEST COMMENT: IF: Strong Blow . B.O.B. in 1 min. Built to 268.68". (30)

ISI: Weak Blow . Built to 3.73". (60)

FF: Strong Blow . B.O.B. in 1 1/2 min. Built to 150.29". (60)

End Time:

FSI: No Blow. (120)



Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2920.76	119.25	Initial Hydro-static
3	791.47	123.91	Open To Flow (1)
32	1525.62	133.94	Shut-In(1)
92	1952.96	130.21	End Shut-In(1)
93	1598.03	130.21	Open To Flow (2)
151	1936.00	132.79	Shut-In(2)
273	1969.70	130.77	End Shut-In(2)
278	2817.07	130.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3498.00	W 100%w	47.97
512.00	GWCM 5%g 30%w 65%m	7.18
176.00	WCM 5%w 95%m	2.47
* Recovery from mul	tiple tests	-

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Thoroughbred Associates LLC

32-31s-18w Commanche Co, Ks

8100 E 22nd St., STE 600 Wichita, Ks. 67226

ATTN: Aaron Young

Miller Farms 32-1

Job Ticket: 67201 **DST#:2**

Test Start: 2021.11.06 @ 08:12:39

2141.00 ft (CF)

GENERAL INFORMATION:

Formation: Viola

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 11:41:09 Tester: Matt Smith
Time Test Ended: 21:23:54 Unit No: 68

Interval: 5656.00 ft (KB) To 5750.00 ft (KB) (TVD) Reference ⊟evations: 2151.00 ft (KB)

Total Depth: 5750.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8737 Outside

 Press@RunDepth:
 psig
 @
 5657.00 ft (KB)
 Capacity:
 8000.00 psig

Start Date: 2021.11.06 End Date: 2021.11.06 Last Calib.: 2021.11.06

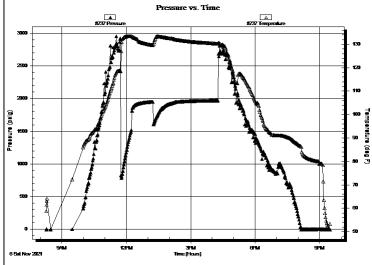
Start Time: 08:17:00 End Time: 21:28:10 Time On Btm: Time Off Btm:

TEST COMMENT: IF: Strong Blow . B.O.B. in 1 min. Built to 268.68". (30)

ISI: Weak Blow . Built to 3.73". (60)

FF: Strong Blow . B.O.B. in 1 1/2 min. Built to 150.29". (60)

FSI: No Blow. (120)



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Ī	Time	Pressure		Annotation
	(Min.)	(psig)	(deg F)	
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Temperature (den F)				
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Recovery

Length (ft)	Description	Volume (bbl)							
3498.00	W 100%w	47.97							
512.00	GWCM 5%g 30%w 65%m	7.18							
176.00	WCM 5%w 95%m	2.47							
* Recovery from multiple tests									

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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FLUID SUMMARY

Thoroughbred Associates LLC

32-31s-18w Commanche Co, Ks

8100 E 22nd St., STE 600 Wichita, Ks. 67226

Miller Farms 32-1

Job Ticket: 67201

DST#: 2

ATTN: Aaron Young

Test Start: 2021.11.06 @ 08:12:39

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:64000 ppm

Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salviscosity: 44.00 sec/qt Cushion Volume: bbl

Water Loss: 9.99 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 6300.00 ppm Filter Cake: 0.20 inches

Recovery Information

Recovery Table

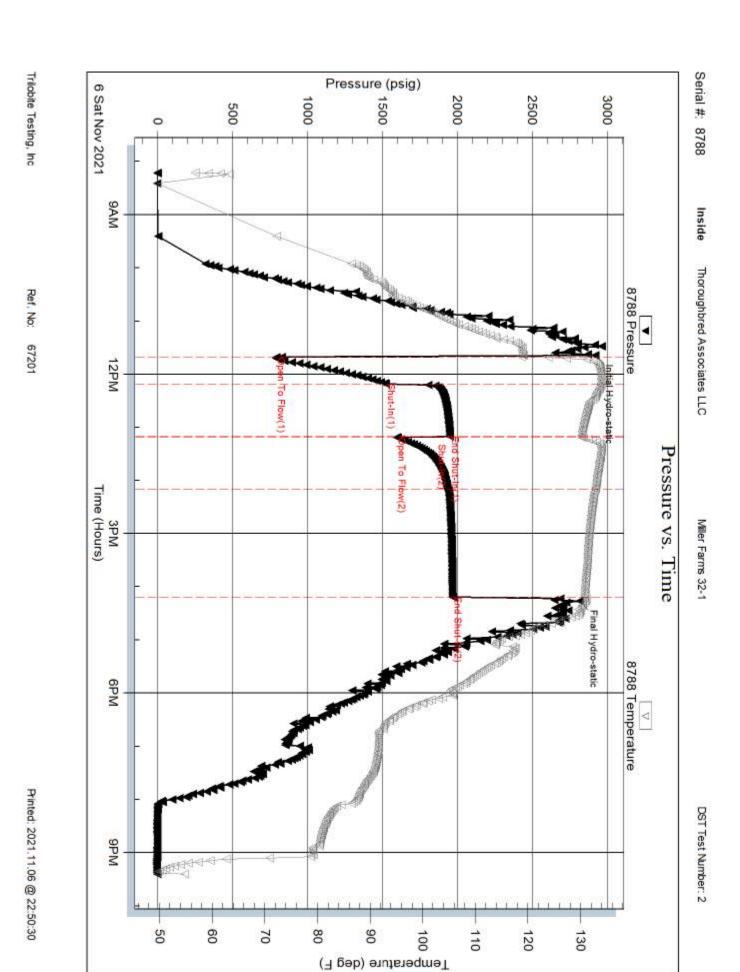
Length ft	Description	Volume bbl
3498.00	W 100%w	47.971
512.00	GWCM 5%g 30%w 65%m	7.182
176.00	WCM 5%w 95%m	2.469

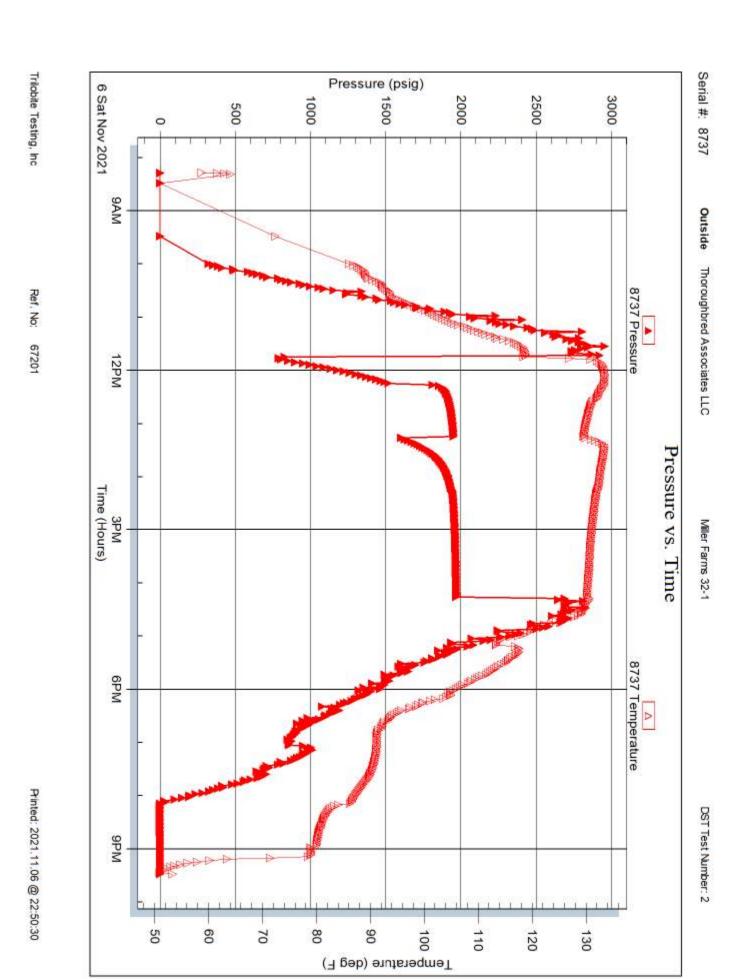
Total Length: 4186.00 ft Total Volume: 57.622 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: None

Laboratory Name: Laboratory Location:

Recovery Comments: RW is .13 @ 59 Degrees = 64,000 Chlorides.





Geologic Report

Aaron L. Young

Drilling Time and Sample Log

Scale 1:240 (5"=100') Imperial Measured Depth Log

Well Name: Miller Farms #32-1

API: 15-033-21791

Location: Section 32 - T31S - R18W

License Number: 31514 Region: Comanche Co., KS

Surface Coordinates: 673' FSL and 1116' FWL

Bottom Hole Coordinates:

Ground Elevation (ft): 2140' K.B. Elevation (ft): 2151' Logged Interval (ft): 4800' To: 6060' Total Depth (ft): 6060'

Formation: Arbuckle

Type of Drilling Fluid: Chemical - MudCo

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Thoroughbred Associates L.L.C

Address: 8100 E 22nd ST STE 600

Wichita, KS 67226+2307

GEOLOGIST

Name: Aaron L. Young, M.S.
Company: Young Consulting LLC
Address: 100 S Main, Suite 505

Wichita, Kansas 67202

General Info

CONTRACTOR: Murfin Drilling Rig #114

BIT RECORD:

No. Size Make Out **Feet** Hours Jets 1 12-1/4 RR 15-15-15 690' 574' 10.0 2 7-7/8 Smith MI 616 15-15-15 6060' 5370' 105.25

Surveys: 690'-.75, 1704'-1, 5015'-.75

GENERAL DRILLING AND PUMP INFORMATION:

Drilling with 10,000-15,000 lbs. on bit and approx 110 RPM.

Running 9 stands of collars; 520.18'

Pumping approx 800 psi at standpipe @ 60 SPM

Daily Status

10-22-21 Edge Services drilled rathole and set 80' for conductor casing.

10-29-21 Begin MIRT. Murfin Drilling has the contract, Rig #114.

10-30-21 Finish MIRT. Drilled from 80' - 690', cut 580'.

- Spud well @ 8:30 AM on 10/30/21.
- Ran 17 jts of 23# J-55 8-5/8" surface casing, set @ 690' (tallied 671.06'), cemented 250 sxs H-Lite, 3% cc, followed by 150 sxs Class A, 2% cc 1/4# celflake. Job completed by Hurricane. Cement did circulate. Kenny Sullivan, Dist #1.
- Plug down @ 2:00 AM on 10/31/21.

10-31-21 WOC @ 690'.

11-01-21 Drilling ahead @ 1005', cut 315.

- Drilled out @ 8:00 PM on 10/31/21. 11-02-21Drilling ahead @ 2510', cut 1505'.

11-03-21 Drilling ahead @ 4210', cut 1700'.

- Displacement @ 3740', used 700 bbls, .75 hrs.

11-04-21 Testing @ 5014', cut 804'. Should be on bottom 10:00-11:00am.

- DST #1 4960-5014 (Altamont)

11-05-21 Drilling ahead @ 5172', cut 158'.

11-06-21 TOOH for DST #2 @ 5750' (Viola), cut 578'.

11-07-21 Drilling ahead @ 5855', cut 105'.

11-08-21 RTD $6\bar{0}60$ ', cut 205'. Log from 10:50 PM on 11/07/21 to 4:00 AM on 11/08/21. LTD 6070' Plug to abandon w/220 sxs H-Plug. Jet cellar & pits. Job completed by Hurricane @ 7:45 PM on 11/08/21. Rig released @ 11:45 PM on 11/08/21.

DST #1 Altamont 4960'-5014' 30"-60"-45"-90"

IF: BOB in 30 sec. Built to 208.65"

SI: Fair blow, built to 6.67"

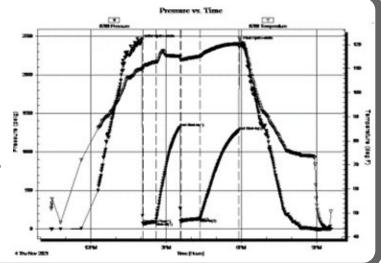
FF: BOB immed. Built to 181.92" Guaged gas

FSI: Weak blow, built to 1.47"

Rec'd: 61' GOWCM (29% G, 20% O, 9% W, 42% M), 120' GHOWCM (22% G, 22% O, 5% W, 51% M), 65' GHOWCM (55%G, 10% O, 5% W, 30% M), 64' GHOWCM (30% G, 15% O, 1% W, 54% M), 32' GVSOCM (20% G, 1% O, 79% M)

Guaged 7.26 mcf/d

SIP: 1319-1277# FP: 71-92#, 95-133# HP: 2429-2399#



DST #2 Viola 5656'-5750' 30"-60"-60"-120"

IF: BOB in 1 mim. Built to 268.68" SI: Weak blow, built to 3.73"

FF: BOB 1.5 min. Built to 150.29"

FSI: No blow

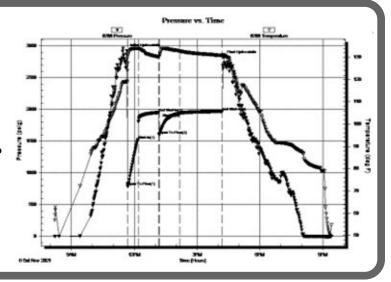
Rec'd: 3498' W (100% W), 512' GWCM (5% G, 30% W, 65%

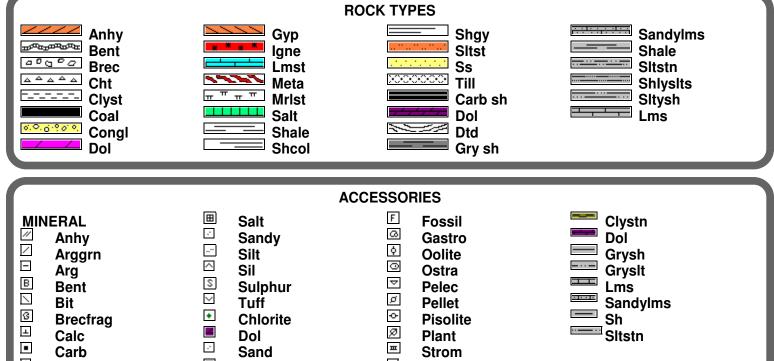
M), 176' WCM (5% W, 95% M)

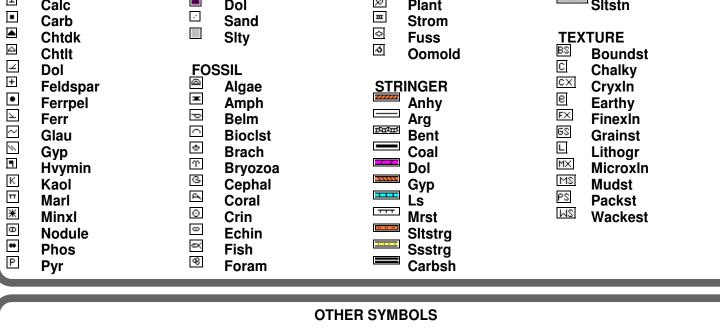
SIP: 1953-1970#

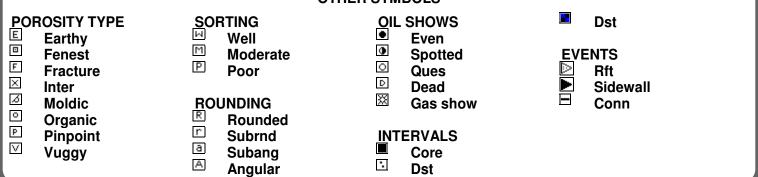
FP: 791-1526#, 1598-1936#

HP: 2921-2817#









Curve Track 1									•	TG, C	1-C5		
ROP (min/ft) Gamma Ray							(unit					•	<u> </u>
- Callina Hay		ity	Lithology		Geological Descriptions	C2	(units	s)					 _
	٥	Porosity	Littlology	×	acological Beschiptions		(units						 _
	MD			Oil Sho			(units						
		24% -18% -12% -6%											
0 ROP (min/ft) 5 3 Gamma Ray 150	4200					1				TG, C	1-C5		300
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