KOLAR Document ID: 1660052

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. REast Wes					
Address 2:	Feet from North / South Line of Section					
City:	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.xxxxxx) (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:  Total Vertical Depth: Plug Back Total Depth:					
☐ Gas ☐ DH ☐ EOR						
☐ OG ☐ GSW	Amount of Surface Pipe Set and Cemented at: Feet					
CM (Coal Bed Methane)	Multiple Stage Cementing Collar Used? Yes No					
Cathodic Other (Core, Expl., etc.):						
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: 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)					
Commingled Permit #:	Chloride content:ppm Fluid volume:bbls					
Dual Completion Permit #:	Dewatering method used:					
SWD Permit #:	Location of fluid disposal if hauled offsite:					
EOR Permit #:	Location of hald disposal in hadica offsite.					
GSW Permit #:	Operator Name:					
_	Lease Name: License #:					
Spud Date or Date Reached TD Completion Date or	QuarterSecTwpS. R East West					
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: 1660052

#### Page Two

Operator Name:	Lease Name: Well #:										
Sec Tw	pS. F	R [	East	West	County:						
open and closed and flow rates if	, flowing and sh gas to surface t ty Log, Final Lo	nut-in pressurest, along wit	es, whe h final c ain Geo	ther shut-in pre hart(s). Attach physical Data a	essure reached extra sheet if r and Final Electr	station more : ric Loc	level, hydrosta space is needed	tic pressures, d.	bottom hole tempe	val tested, time tool erature, fluid recovery,  Digital electronic log	
Drill Stem Tests (Attach Addit			Ye	es No		Lo	og Formatio	n (Top), Deptl	n and Datum	Sample	
Samples Sent to	Geological Sur	vey	Ye	es 🗌 No		Name	)		Тор	Datum	
Samples Sent to Geological Survey  Cores Taken  Electric Log Run  Geologist Report / Mud Logs  List All E. Logs Run:			Y€  Y€	es No							
			Repo		RECORD [	Nev	w Used rmediate, producti	on. etc.			
Purpose of St		ze Hole Orilled	Siz	e Casing (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives	
				ADDITIONAL	OF MENTING /						
Purpose:	[	Depth	Typo		# Sacks Use		EEZE RECORD	Typo a	nd Percent Additives		
Perforate Protect Ca Plug Back	Top	Bottom	Type of Cement		# Sacks Oseu		Type and Ferent Additives				
Plug Off Z											
Did you perform     Does the volum     Was the hydraul	e of the total base	fluid of the hyd	draulic fra	cturing treatmen		•	Yes ns? Yes	No (If No	, skip questions 2 an , skip question 3) , fill out Page Three o	,	
Date of first Produ	ction/Injection or	Resumed Produ	uction/	Producing Meth			Coolift 0	thor (Fundain)			
Estimated Produc	otion	Oil Bb	le.	Flowing Pumping				ther (Explain)	Gas-Oil Ratio	Gravity	
Per 24 Hours		Oli Bb	15.	Gas	Mcf	vvale	Water Bbls.		Gas-Oil Hallo	Gravity	
DISPO	OSITION OF GAS	S:		METHOD OF COM			TION:		PRODUCTIO	PRODUCTION INTERVAL:	
Vented	Sold Use	d on Lease				Dually Comp. Commingled Submit ACO-5) (Submit ACO-4)			Bottom		
(If vente	ed, Submit ACO-18	.)			(5	SUDITIIL I	ACO-5) (SUDI	mit ACO-4)			
Shots Per Foot	Perforation Top	Perforation Bottom	on	Bridge Plug Type	Bridge Plug Set At				Cementing Squeeze Kind of Material Used)	Record	
TUBING RECOR	D: Size:		Set At:		Packer At:						

Form	ACO1 - Well Completion
Operator	Darrah Oil Company, LLC
Well Name	PANTHER MADDEN UNIT 1
Doc ID	1660052

# All Electric Logs Run

Dual induction	
Micro	
Sonic	
Density neutron	

Form	ACO1 - Well Completion
Operator	Darrah Oil Company, LLC
Well Name	PANTHER MADDEN UNIT 1
Doc ID	1660052

# Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight		Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	23	237	h-235	160	
Production	7.875	5.5	14	2262	h-long	125	



Remit To: Hurricane Services, Inc.

250 N. Water, Suite 200 Wichita, KS 67202 316-303-9515

Customer:

DARRAH OIL C/O JOHN JAY DARRAH JR PO BOX 2786

WICHITA, KS 67201-2786

Invoice Date: 4/19/2022
Invoice #: 0360250
Lease Name: Panther Madden Unit

Lease Name: Panther Madden Unit
Well #: 1 (New)
County: Chase, Ks
Job Number: EP4390

District: El Dorado

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
Heavy Eq Mileage	50.000	3.800	190.00
Ton Mileage	400.000	1.425	570.00
Cement Pump Service	1.000	712.500	712.50
H-325	160.000	21.375	3,420.00

Total 4,892.50

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

<u>SALES TAX:</u> Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.



Customer	Darrah Oil Co		Lease & Well	Panther Madd	en Unit #1			Date	4	1.19.22	
Service District	El Dorado		County & State	Chase Co, KS	Legals S/T/R	30 - 199	S - 6E	Job#	Е	P4390	)
Job Type	Surface	☑ PROD	□ INJ	□ SWD	New Well?	☑ YES	□ No	Ticket #	Е	P4390	)
Equipment #	Driver			Job Safety	Analysis - A Discus	sion of Hazards	& Safety Pro	cedures			
265	Kevin N.	☑ Hard hat		☑ Gloves		□ Lockout/Tage	out	□ Warning Signs	& Flagging		
294	Garrett S.	☑ H2S Monitor		☑ Eye Protection	on	□ Required Per	mits	☐ Fall Protection			
		☑ Safety Footwe	ar	□ Respiratory F	Protection	☑ Slip/Trip/Fall	Hazards	☑ Specific Job Se	quence/Expe	ctation	ıS
		☑ FRC/Protective	Clothing	☐ Additional C	hemical/Acid PPE	☑ Overhead Ha	zards	☑ Muster Point/N	Medical Locat	ions	
		Hearing Protect	ction	☑ Fire Extinguis	sher	☐ Additional co	ncerns or issu	ies noted below			
					Cor	nments					
		Set 237' 8 5	/8 surface ca	asing.							
Product/ Service							List		Item		
Code	_	Desc	ription		Unit of Measure	Quantity		Gross Amount	Discount	Net	Amount
M010	Heavy Equipment	Mileage			mi	50.00					\$190.00
M020	Ton Mileage				tm	400.00					\$570.00
C010	Cement Pump Se	rvice			ea	1.00					\$712.50
CD04F	H-325				a a a l	460.00					£2 420 00
CP015	H-325				sack	160.00					\$3,420.00
Cust	amar Saatian: On	the following cools to	a a u u a u lal u a u va t	a Humiaana Canii	ln - 2		_			ı	
Cust	omer Section: On	ine following scale i	low would you rat	e Humcane Servi	ces inc.?	Total Taxable	Gross:	\$0.00 Tax Rate:	Net:		\$4,892.50
В	ased on this job, h	ow likely is it you	would recommer	nd HSI to a collea	igue?			ducts and services	Sale Tax:	\$	<u> </u>
					-	used on new well	s to be sales ta			_	
	Unlikely 1 2	3 4 5		8 9 10	Extremely Likely	well information a	bove to make a	determination if	_		
		•		- 0 10		services and/or p		•	Total:	\$	4,892.50
						HSI Represe	entative:	Kevin Noelle	r		

TERMS: Cash in advance unless Hurricane 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 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 defect 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 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 property 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 servi

X	<b>CUSTOMER AUTHORIZATION SIGNATURE</b>
^	

ftv: 15-2021/01/25 mplv: 260-2022/03/30



CEMENT		A-PAIEN	e nen	OPT									
				UKI									
Cust	omer:	Darrah (	Oil Co	il Co Well:			Panther Madden Unit #1 Ticket: EP4390						
City,			County:				Chase (	Co, KS	Date:	4	.19.22		
Field	d Rep:	Tim Stac	Tim Stack S-T-R:				30 - 19	S - 6E	Service:	S	urface		
Down	nhole l	nformatio	on		Calculated Si	lurry - Lea	ıd		Calc	ulated Slurry - T	'all		
Hole	Size:	12 1/4	in		Blend:		325		Blend:	_			
Hole D	Depth:	247	ft		Weight:	15.0	PPg						
Casing	Size:	8 5/8	in		Water / Sx:	6.5	gal / sx		Water / Sx:	gal /	sx		
Casing D	Depth:	237	ft		Yield:	1.36	ft³/sx		Yield:	ft³/s	<b>SX</b>		
Tubing /	Liner:		in		Annular Bbls / Ft.:		bbs / ft.		Annular Bbls / Ft.:	bbs /	ft.		
	Depth:		ft		Depth:		ft		Depth:	ft			
Tool / Pa					Annular Volume:	0.0	bbis		Annular Volume:	0 bbls			
Tool D			ft		Excess:				Excess:				
Displace	ment:		bbls		Total Slurry:		bbis		Total Slurry:	0.0 bbls			
TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	Total Sacks: REMARKS	160	SX		Total Sacks:	0 sx			
1:15 AM		FOI	- DD-5	-	On location safety meet	ting							
1:20 AM			_		Hook up pump and hos								
1:40 AM					Pull drill stem								
2:20 PM				_	Trip in 8 5/8 casing								
4:00 AM		75.0	10.0	10.0	Break circulation Pump	10 bbls of	water						
4:03 AM	2.8	70.0	38.7	48.7	Mix and pump cement								
4:18 AM			13.8	62.5	Displace with 13.8 bbls	water							
				62.5	Good cement returns								
4:25 AM				62.5	Wash up								
4:45 AM				62.5	Rig down								
				62.5									
		CREW			UNIT				SUMMAR				
	nenter:	Kevii			265		Average		Average Pressure	Total Fluid			
Pump Op		Garre	ett S.		294		3.4 1	opm	73 psi	63 bbls			
	ulk #1: ulk #2:												

ftv: 15-2021/01/25 mplv: 260-2022/03/30



Remit To: Hurricane Services, Inc.

250 N. Water, Suite 200 Wichita, KS 67202 316-303-9515

Customer:

DARRAH OIL C/O JOHN JAY DARRAH JR PO BOX 2786 WICHITA, KS 67201-2786 Invoice Date: 4/24/2022
Invoice #: 0360208
Lease Name: Panther Madden Unit

Well #: 1 (New)
County: Chase, Ks
Job Number: EP4436
District: East

HRS/QTY Date/Description Rate Total 0.000 0.000 0.00 Longstring Heavy Eq Mileage 50.000 4.000 200.00 Light Eq Mileage 50.000 2.000 100.00 423.750 Ton Mileage 1.500 635.63 1.000 1,500.000 1,500.00 Cement Pump Service Cement Eq Standby time 2.000 300.000 600.00 1.000 300.000 300.00 Casing Swivel Cement Plug Container 1.000 250.000 250.00 Thixatropic 150.000 30.000 4,500.00 Mud flush 500.000 1.000 500.00 262.50 Pheno Seal 150.000 1.750 60.000 240.00 Centralizers 5 1/2" 4.000 5 1/2" Floatshoe-Flapper AFU 1.000 375.000 375.00 5 1/2" LD Plug & Baffle 1.000 350.000 350.00 KCL-CS701 30.000 1.000 30.00 Fresh water 3,360.000 0.020 67.20 Vacuum Truck-80bbl 11.500 100.000 1,150.00

Total	11,060.33

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.



Customer	Darrah Oil Company		Lease & Well #	Panther Madden (	Jnit #1			Date		4/24/2022	
Service District	Garnett		County & State	Chase Co, KS	Legals S/T/R	30-195	3-6E	Job#			
Job Type	Longstring	☑ PROD	מון 🗌	SWD	New Well?	<b> ✓</b> YES	☐ No	Ticket #	1	EP4436	
Equipment #	Driver			Job Safety An	alysis - A Discuss	sion of Hazards	& Safety Pro	cedures			
931	Casey Kennedy	✓ Hard hat		✓ Gloves		Lockout/Tag	gout	☐ Warning Sign	ns & Flagging		
239	Garrett Scott	H2S Monito	r	Eye Protection		Required Pe	rmits	☐ Fall Protection	n		
248	Keith Detwiler	Safety Foot		Respiratory Pro	tection	☑ Slip/Trip/Fa	ll Hazards	Specific Job S	Sequence/Exp	ectations	
122	Kevin Noeller	FRC/Protect		Additional Che	mical/Acid PPE	✓ Overhead H	azards	✓ Muster Point	/Medical Loc	ations	
		✓ Hearing Pro	tection	✓ Fire Extinguish	-	THE RESERVE OF THE PERSON NAMED IN	oncerns or is	sues noted below			
		C-4 22501 -	of 5.5" casing i	- 7 07FH b - I		nments	- C - DII	00/ 1/01		00111 6	
		displaceme		in 7.875 noie	With 125 SX F	1854 + 25 SX	s for KM.	2% KCL wat	er in first	20 bbl of	
		displassini									
Product/ Service								E STATE OF THE PARTY.			
Code		Des	cription		Unit of Measure	Quantity				Net Amount	
M010	Heavy Equipment M	lileage			mi	50.00				\$200.00	
M015	Light Equipment Mil	eage			mi	50.00				\$100.00	
M020	Ton Mileage				tm	423.75				\$635.63	
								- A			
C015	Cement Pump Serv				ea	1.00				\$1,500.00	
C030	Cement Service - A	fter 4 Hrs on Loc	ation		hr	2.00				\$600.00	
C040	Casing Swivel				job	1.00	_			\$300.00	
C050	Cement Plug Conta	iner			job	1.00				\$250.00	
CP060	H854 Thixo				sack	150.00				\$4 F00 00	
CP170	Mud Flush				gal	500.00			<u> </u>	\$4,500.00 \$500.00	
CP125	Pheno Seal				lb	150.00				\$262.50	
										\$202.50	
FE125	5 1/2" Centralizer				ea	4.00				\$240.00	
FE145	5 1/2" Float Shoe - /	AFU Flapper Typ	e		ea	1.00				\$375.00	
FE170	5 1/2" Latch Down F	Plug & Baffle			ea	1.00				\$350.00	
	-										
AF055	Liquid KCL Substitu	te			gal	1.00				\$30.00	
AF080	Fresh Water				gal	3,360.00				\$67.20	
T010	Vacuum Truck - 80	bbl			hr	11.50				\$1,150.00	
						-					
Custo	omer Section: On th	e following scale	how would you rate	Hurricane Services I	nc.?					\$14 ACA 22	
						Total Taxable	\$ -	Tax Rate:		\$11,060.33	
Ba	sed on this job, ho	w likely is it you	would recommend	HSI to a colleague	?	State tax laws dee	m certain prod	ucts and services	Sale Tax:	\$ .	
						Services relies on	the customer p				
	Unlikely 1 2	3 4 5	6 7 8	9 10 Extr	emely Likely	information above services and/or pr			Tatali	* 44.000.55	
	-								Total:	\$ 11,060.33	
TERMS: Cook in a direct	unno unloso I liveles - 2	randana bir 1860 -	nas approved credit pric			HSI Represe			y Ken		
LEKWO: Cash in adva	nice uniess murricane s	er vices inc. (HSI) I	ses approved credit prid	or to sale, Credit terms	or sale for approved a	accounts are total in	voice due on o	r before the 30th day	from the date	of invoice Past due	

TERMS: Cash in advance unless Hurricane 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 accounts shall pay interest on the balance past due at the rate of 1 15% par 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 not 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 property 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 serv

X	CUSTOMER AUTHORIZATION SIGNATURE
The state of the s	SOCIONER ACTION SIGNATUR



CEMENT TREATMENT REPORT													
Cust	tomer:	Darrah (	Oil Com	pany	Well:	Panther Madden Unit #1			fl Ticket		EP4436		
City, State:					County:	Chase Co, KS			Date		4/24/2022		
Fiel	d Rep:	Cooper			S-T-R:		30-198	-6E	Service		Longstring		
					- Paragraphic Control of the Control		Life of the Land	1		in the last			
Dow	nhole l	nformatio	on		Calculated	Slurry - Lea	d	- 4	Ca	culated Slurry	- Tail		
Hole	Size:	7 7/8	in		Blend:	Thixe	1# PS	- 4	Blend				
Hole I		2270	ft	3	Weight:	13.85	ppg	13	Weight	pi	pg		
Casing		5 1/2			Water / Sx:	8.82	gal / sx		Water / Sx	g	al/sx		
Casing I					Yield:	1.80	ft³/sx	- 19	Yield	ft	3 / sx		
		land sub			Annular Bbls / Ft.:		bbs / ft.	9	Annular Bbls / Ft.	bl	bs / ft.		
	Depth:		ft		Depth:		ft		Depth	ft			
Tool / P		baf			Annular Volume:	0.0	bbls		Annular Volume	0 bl	bis		
		2221.45			Excess:				Excess				
Displace	ment:	54.21	bbls		Total Slurry:	48.09	bbls		Total Slurry	0.0 bl	bls		
			STAGE	TOTAL	Total Sacks:	150	sx		Total Sacks	0 si	K		
TIME	RATE	PSI	BBLs	BBLs	REMARKS								
12:00 PM			-		on location with float	equipment							
12:30 PM					80 Vac on location								
1:00 PM					cement pump and bulk truck on location								
					held safety meeting								
5-40 DM					waited for rig to lay down drill steel and for casing crew to arrive								
5:10 PM					casing crew on location								
					asing crew rigged up and started running casing								
7:00 PM	_					casing landed, rig broke circulation, rig crew moved pipe racks noved into position and rigged up while rig circulated hole for 1 hr							
7:30 PM								ated hole fo	or 1 hr				
8:00 PM	4.0	200.0			dropped AFU ball, rig								
8:30 PM	1.5	200.0			mixed and pumped 500 gal Mud Flush								
	4.0	200.0			mixed and pumped 125 sks Thixo coment with 1# PhonoSeal per sk to plug Rat Hole								
	4.0	200.0			mixed and pumped 125 sks Thixo cement with 1# PhenoSeal per sk								
	4.0	500.0			flushed pump clean	pumped 5 1/2" latch down rubber plug to latch down baffle with 54.21 bbls fresh water with KCl in first 20 bbls							
9:30 PM		1,100.0			plug down, pressured				ith 54.21 bbis fresh water	With KCI in first	20 bbis		
0.00 T M	1.0	1,100.0			released pressure to			ire					
	4.0				washed up equipment								
	4.0				wasned up equipment	and rigged (	IOWII						
10:00 PM					left location								
					101113044011								
								-					
						-							
									Maria de la companya				
		CREW			UNIT				SUMMAR	v	HEALTH STREET		
Cen	nenter:	Control to Control to Control	y Kenned	ly	931		Average F	Rate	Average Pressure	Market Ma	id		
Pump Op	1		ett Scott		239		3.2 bp		500 psi	Total Flu	bls		
	ulk #1:		Detwiler		248		0.2 bp		ovo hai	- DI	ЛЭ		
Bulk #2: Kevin Noeller				122									

ftv: 15-2021/01/25 mplv: 260-2022/03/30



		Log Smages
		A SETTO
		A DOLLARS
		• Of Store
		4 Castra Story
		AG PH Report
Uthology	Down Duries	Tight Connection
DE NOVOTA		g fraction
Section 1	0190 F1 80F099/80	Proprie Francoise Tops
Sp frends		Higgs Farmation Hordon's
Carbonospone shark	1	<ul> <li>Pressure first</li> </ul>
Cerure 199 Che 1	1	Carbonoscom
MIR Gantina	1	
Cold	1	Karintu Burray
Conglumentes	1	Posts
Colorata	1	r tool
Taut or Fraction	1	Constant
DONO.		
Life Sales	1	
DE Metabone	1	
Sell Modernia	1	
2005000	1	
SE that	1	
III MOON	1	
Intervals		
Distriction .	1	
Total Titols	1	
Ratioter	1	1
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## DRILL STEM TEST REPORT

Darrah OIL Co

30 19 6

126 N Market Suite 1425 Wichita KS 67202

Job Ticket: 68637

Panther Madden Unit

DST#: 1

ATTN: Jarod

Test Start: 2022.04.23 @ 06:30:00

Terry

#### **GENERAL INFORMATION:**

Formation: Viola

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:47:30 Time Test Ended: 17:13:30

Test Type: Conventional Bottom Hole (Initial)

Unit No: 75

Tester:

1458.00 ft (KB)

Interval: 2173.00 ft (KB) To 2189.00 ft (KB) (TVD) Total Depth: 2189.00 ft (KB) (TVD)

Reference Elevations: 1452.00 ft (CF)

7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8320 Press@RunDepth:

Hole Diameter:

Outside

538.38 psig @

2174.00 ft (KB)

Capacity: Last Calib.: 8000.00 psig

Start Date:

2022.04.23

End Date: End Time: 2022.04.23 17:13:30

Time On Btm: 2022.04.23 @ 09:47:15

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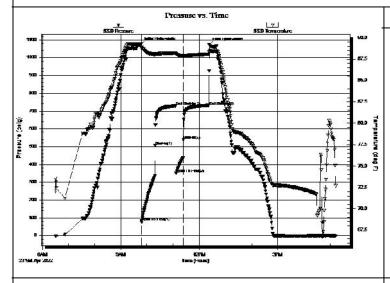
06:30:05 Start Time:

Time Off Btm:

2022.04.23 @ 12:23:00

TEST COMMENT: IF-30- BOB in 3 min

ISI-45= n0 return FFI-15- BOB 3 jn 3 min FSI -60- no return



Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1075.57	89.25	Initial Hydro-static
1	80.85	88.82	Open To Flow (1)
32	506.37	88.08	Shut-In(1)
79	728.21	88.21	End Shut-In(1)
80	351.74	88.07	Open To Flow (2)
97	538.38	87.93	Shut-In(2)
156	730.88	88.04	End Shut-In(2)
156	1071.74	88.26	Final Hydro-static

#### Recovery

Description	Volume (bbl)
100% oil	0.44
30% oil 60%w ater 10%mud	3.66
100% w ater	3.18
	100% oil 30% oil 60%w ater 10%mud

#### Gas Rates

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

Ref. No: 68637 Printed: 2022.04.24 @ 17:14:48 Trilobite Testing, Inc.



### DRILL STEM TEST REPORT

Darrah OIL Co

30 19 6

126 N Market Suite 1425 Wichita KS 67202

Panther Madden Unit

Job Ticket: 68637

DST#: 1

ATTN: Jarod

Test Start: 2022.04.23 @ 06:30:00

Test Type: Conventional Bottom Hole (Initial)

#### **GENERAL INFORMATION:**

Viola Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:47:30 Tester: Terry Unit No: Time Test Ended: 17:13:30 75

Interval: 2173.00 ft (KB) To 2189.00 ft (KB) (TVD) Reference Elevations: 1458.00 ft (KB)

2189.00 ft (KB) (TVD) Total Depth: 1452.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 6.00 ft

Serial #: 8368 Inside

Press@RunDepth: 2174.00 ft (KB) Capacity: 8000.00 psig psig @

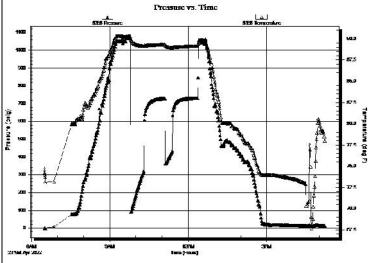
Start Date: 2022.04.23 End Date: 2022.04.23 Last Calib.: 1899.12.30

Start Time: 06:30:05 End Time: Time On Btm: 17:13:30

Time Off Btm:

TEST COMMENT: IF-30- BOB in 3 min

ISI-45= n0 return FFI-15- BOB 3 jn 3 min FSI-60- no return



	FILOSOIL SOMMANT									
	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation						
Temperature (dag F)										
dag F)										

#### Recovery

Length (ft)	Description	Volume (bbl)	
90.00	90.00 100% oil		
400.00	30% oil 60%w ater 10%mud	3.66	
310.00	100% w ater	3.18	

#### Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Ref. No: 68637 Printed: 2022.04.24 @ 17:14:49 Trilobite Testing, Inc.



# DRILL STEM TEST REPORT

**FLUID SUMMARY** 

DST#: 1

Darrah OIL Co

126 N Market Suite 1425 Wichita KS 67202 Panther Madden Unit

Job Ticket: 68637

30 19 6

Test Start: 2022.04.23 @ 06:30:00

**Mud and Cushion Information** 

Mud Type:Gel ChemCushion Type:Oil A Pl:20 deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight: 9.00 lb/gal Cushion Length: ft
Viscosity: 36.00 sec/qt Cushion Volume: bbl

ATTN: Jarod

11.99 in<sup>3</sup> Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 1200.00 ppm Filter Cake: 1.00 inches

#### **Recovery Information**

Water Loss:

#### Recovery Table

Length ft	Description	Volume bbl
90.00	100% oil	0.443
400.00	30% oil 60%w ater 10%mud	3.655
310.00	100% w ater	3.181

Total Length: 800.00 ft Total Volume: 7.279 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 68637 Printed: 2022.04.24 @ 17:14:49

