KOLAR Document ID: 1291962

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
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.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
□ Oil □ WSW □ SWD	Producing Formation:
Gas DH EOR	Elevation: Ground: Kelly Bushing:
☐ OG ☐ GSW	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used? Yes No
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)
Committed at Provider	Chloride content: ppm Fluid volume: bbls
☐ Commingled Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Location of fluid disposal if fladied offsite.
GSW Permit #:	Operator Name:
<u> </u>	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. 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 III Approved by: Date:

KOLAR Document ID: 1291962

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		Type and F	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.		n.	i donei Al.				

Form	ACO1 - Well Completion
Operator	White Exploration, Inc.
Well Name	Arnold 1
Doc ID	1291962

All Electric Logs Run

Compensated Density/Neutron
Dual Induction Log
Micro Log
Sonic Log

Form	ACO1 - Well Completion
Operator	White Exploration, Inc.
Well Name	Arnold 1
Doc ID	1291962

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	24	1721	See Attachme nt	630	See Attachme nt
Production	7.875	5.5	17	5700	See Attachme nt	675	See Attachme nt



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Est Road, Liberal KS 67901

PRESSURE PUMPING Job Log

Customer:	Ken \	White Explora	tion		Cement Pump No.:	38117, 199	119 23Hrs.	Operator TRK No.:	789			
Address:					Ticket #:	1717 0	6783 A	Bulk TRK No.:	30464, 37724 Jose	14355, 3772 Jose		
City, State, Zip:					Job Type:		Z42 Cement Production Casing					
Service District:		Liberal Ks.			Well Type:		OIL					
ell Name and No.:		Amold #1			Well Location:	6,29,40	county: Stanton state:					
Туре с	of Crnt	Sacks			Additives			Truck Loa	aded On			
A-Con"	Blend	60	3%		UM CHLORIDE, 1/4		30464, 37	7724 Jose	Front	Back		
AA2 C	ement	200			60, 10% SALT, .6% EFOAMER, 5# GILS	•	30464,	, 37724	Front	Back		
A-Con*	Blend	315	3%		UM CHLORIDE, 1/4		14355,	, 37725	Front	Bacl		
Premium Pl	us Cement	100	2%	CALCI	UM CHLORIDE, 1/4	# POLYFLAKE	14355,	37725	Front	Back		
Premium Pl	us Cement	50	2%	CALCI	UM CHLORIDE, 1/4	# POLYFLAKE	14355,	37725	Front	Bacl		
Lead	Tail:	Weight #1 Gal.	Cu/l	Ft/sk	Water Rec	uirements	CU. FT.	Man	Hours / Persor	nel		
Lead	l #1:	11.4	2.	93	1	8	175.8	Man Hours:				
Tail	#1:	14.8	1.	51	6.6	64	302	# of Men on Job:	3			
Lead	l #2:	11.4	2.	95	18	.1	929.25					
Tail	#2:	14.8	1.	34	6.3	33	134					
Ta	eil	14.8	1.	34	6.3	33	67					
Time		Volume	Pt	ımps	Press	ure(PSI)	D	escription of Ope	ration and Materia	ls		
(am/pm)	(BPM)	(BBLS)	Ţ	С	Tubing	Casing						
20:00				<u></u>				ON LOC	ATION			
20:05							WA	IT ON RIG TO	L.D. D.P & D.	C.		
1:45 AM		**************************************		<u> </u>				SAFETY MEETING				
2:00 AM				<u> </u>				RUN FLOAT EQUIPMENT				
3:40 AM		***************************************						AT 65 JOINTS CIRCULATE				
5:45				<u> </u>			CASING O	ON BOTTOM RIG UP TO CIRCULATE				
6:10		•						CIRCULATE				
0.50				-				RIG UI				
9:50		***************************************		1		=00	 	RESSURE TEST TO 3000 P.S.I.				
10:00 10:05	5 6.3	24.2 oluma		<u> </u>	:	500		UMP 500 GAL. SUPER FLUSH II				
10:03	6.2	31.3 slurry 53.7 slurry				600 200	[MP 60SK. 'A-CON' BLEND @ 11.4#				
10:30	0.2	JJ. / Slully		├─		200		PUMP 200SK AA2 @ 14.8# HUTDOWN / W.P. / DROP PLUG				
10:35	6.2	10		 		50	0110	DISPL	•	<u> </u>		
	6.2	70	***************************************	† ·······		50		5101 L				
	6.4	80				50			****			
	6.3	90		1		200				······································		
	6.3	100		T	·	250						
	6	110		<u></u>		700						
	6.1	120				850				***************************************		
Size Hole	7 7/8"	Depth			5701'		PLUG C.	RC	TATING HEA	D		
Size & Wt. Csg.	5 1/2" 15.5#	Depth			New / Used		Two STG Col	lar	Depth	3216'		
tbg.		Depth					Retainer		Depth			
Top Plugs		Type	_	<u> </u>			Perfs		CIBP			
	,	// .	/	//		Basic Represe	ntative:		Daniel Beck			
Customer Sig	nature: 🏑	facecyt Whole Exp	Tech	<u>//</u>		Basic Signatur	е:	Daniel	Back			
	/ /					Date of Servic	e:	1/6/2015				



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Esta Road, Liberal KS 67901

PRESSURE PUMP. VG Job Log

Customer:	Ken \	White Explorat	tion		Cement Pump No.:	38117, 19919 23Hrs. Operator TRK No.						
Address:					Ticket #:	1717 0	6783 A	Bulk TRK No.:	30464, 37724 Jose	14355, 3772 Jose		
City, State, Zip:					Job Type:		Z42 Cement Production Casing					
Service District:		Liberal Ks			Well Type:		OIL					
Hi Namo and No.:		Amold #1			Well Location:	6,29,40	40 County: Stanton state:					
Туре о	f Cmt	Sacks	·		Additives			Truck Lo	aded On			
							30464, 3	7724 Jose	Front	Back		
			·····				14355, 3	7725 Jose	Front	Back		
									Front	Back		
Lead/		Weight#1 Gal.	Yie	eld	Water Req	uirements	CU. FT.		Hours / Persor	ınel		
Lea							0	Man Hours:				
Та	115						0	# of Men on Job;				
Time		Volume		mps		ure(PSI)		escription of Ope	ration and Material	s		
(am/pm)	(BPM)	(BBLS)	Т	С	Tubing	Casing						
10:56	2	125				800		SLOW				
11:00	0	135.1	·····	 		1600	 	***************************************	PRESSURE (
									C FLOAT HELE	······		
11:20 AM						· · · · · · · · · · · · · · · · · · ·			HRU AT 1200	·····		
11:25 AM							DISCONNE		T. / RIG TO CII	RCULATE		
13:15	4	405.4 -1					DIDA	RIG U				
13:20		165.4 slurry							ON' BLEN @1			
1:53 PM		23.8 slurry							IUM PLUS @	14.8#		
13:58 14:02	5.8	10		-		0			DROP PLUG			
14.02	5.6	20	***************************************	 		0		DISPLAC	EIVIEIN I			
	5.6	30				100						
	1.5	40		<u> </u>		100		LOW ON	MATER			
	4.8	50	i	<u> </u>		300		LOWON	YVAILIN			
	4.6	60	******	 		500						
**** ** ********	2.1	65				600	\	SLOW	RATE			
	2.1	70		 		650	· · · · · · · · · · · · · · · · · · ·					
14:24	0	76.1				1800	TOOL CLO	SED RELEAS	ED BACK FLO	AT HELD		
		1 271					· · · · · · · · · · · · · · · · · · ·		OUSE W/ 50SI	······································		
14:30		· · · · · · · · · · · · · · · · · · ·	***************************************				***************************************	JOB COI	,,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			
										**		
Size Hole	7 7/8"	Depth	,	<u></u>	<u> </u> 5701'		TYPE	1				
	5 1/2" 15.5#			0	New / Used		Packer	<u> </u>	Depth			
tbg.	 	Depth		0			Retainer		Depth			
Top Plugs	0	Туре					Perfs		CIBP			
	 	0	_	> /	7	Basic Represe	entative:		Daniel Beck			
Customer Sig	ınature:√ <u></u>	kuuzi e kilo ET	aes		/	Basic Signatu		Danie	lBel	,		
	77	1				Date of Service	<u> </u>	1/6/2015				



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

Well Name: Arnold #1 Location: 6-29S-40W

License Number: API: 15-187-21324 Region: Stanton Co., KS

Spud Date: 12/26/15 Drilling Completed: 01/05/16

Surface Coordinates: 490' FSL, 1515' FEL

Bottom Hole

Coordinates:

Ground Elevation (ft): 3311 K.B. Elevation (ft): 3322 Logged Interval (ft): 4200 To: 5700 Total Depth (ft): 5700

Formation: Mississippian Type of Drilling Fluid: Chemical

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

OPERATOR

Company: White Exploration, Inc. Address: 1635 N. Waterfront Pkwy.

St. 100

Wichita, KS 67206

GEOLOGIST

Name: Andrew White

Company: White Exploration, Inc.

Address:

Remarks

After log and DST evaluation, it was decided that casing be run on the Arnold #1 to perforate the Keyes Sand.

General Info

Drilling Contractor: Murfin Rig 21

Logs: CJ Cased Hole Solutions

Compensated Density/Neutron, Dual, Micro, Sonic

Drilling Mud: Mudco/Service Mud, Inc.

DST: Trilobite Testing

Surveys: 595'-.75, 907'-.75, 3767'-.75, 5430'-1, 5700'-1

Daily Status

12/26/15: Spud Well @ 3:00 A.M. 12/27/15: Lost Circulation @ 1413

12/28/15: Lost Circulation @ 1492, Drill to 1721' run 41 joints of 8-5/8" 24# Surface Casing, cement with 430

sacks A-Con Blend Cement with 3% CC, 1/4# polyflake and .2%WCA-1 and 150 sacks of Premium Plus Cement with 2%CC and 1/4# polyflake

12/29/15: Waiting on Cement for top 150' of surface casing, cement from top thru 1" with 200 sacks common cement with 2% CC

12/30/15: Drilling @ 1985', lost circ @ 2337

12/31/15: Drilling @ 3100' 01/01/16: Drilling @ 4292' 01/02/16: Drilling @ 5189'

01/03/16: Coming out of hole with DST #1

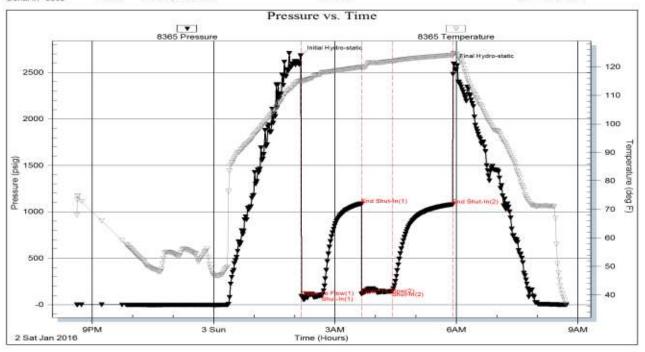
01/04/16: Drilling @ 5509'

01/05/16: Logging

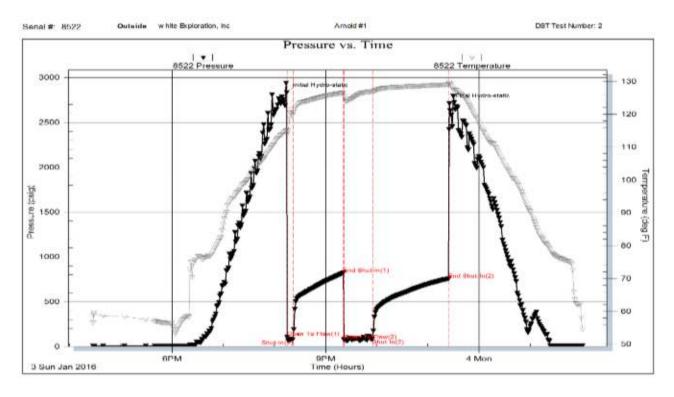
		White Ex	Bere	exco		
		Arnold #1	Earl Arnold 7-2			
		629S-40W	7-29S-40W			
	490	' FSL, 1515	335' FNL, 335' FWL			
	KB:3322		(C)	KB: 3336		
	Sample	Log	Datum	Relationship		
Heebner		3693	-371	-7		
Lansing		3783	-461	-22		
Cherokee	4545	4547	-1225	-20		
Morrow	5020	5021	-1699	-27		
LMM	5345	5341	-2019	-27		
Miss	5654	5579	-2257	-2	20	

39 87 8
J.M. Huber
Earl Arnold 7-1
7-29S-40W
2300' FNL, 500' FWL
KB: 3337
Relationship
9
-20
-17
-20
-17
-18

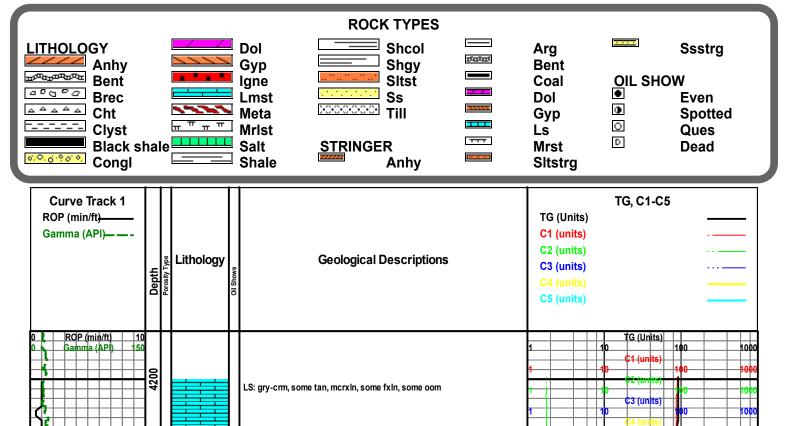
Stelbar
#1-31 Plummer
31-28S-40W
1310' FSL, 1300' FEL
KB: 3321
Relationship
-4
4
-3
-2
-13
-22

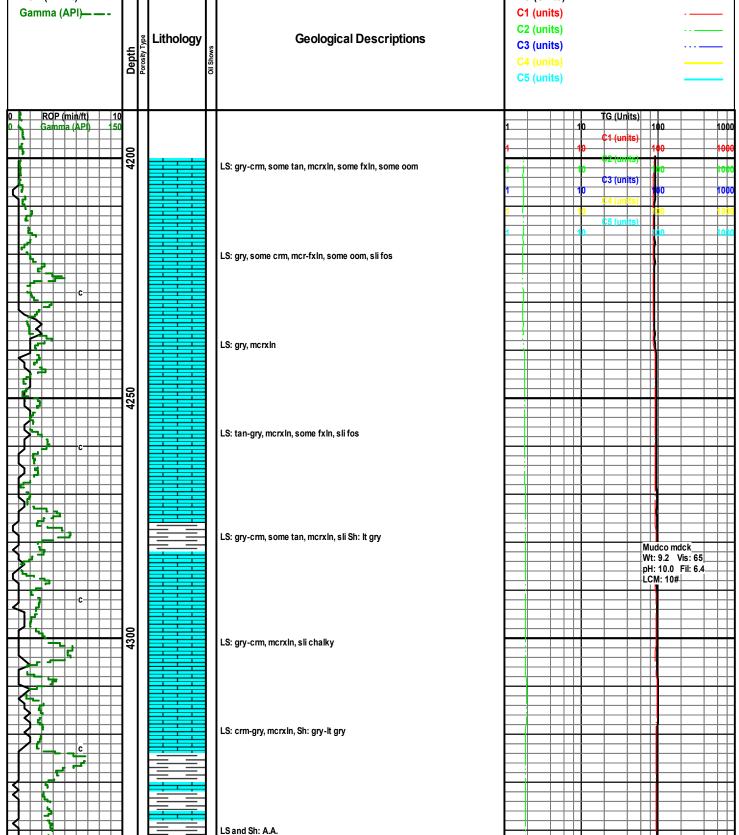


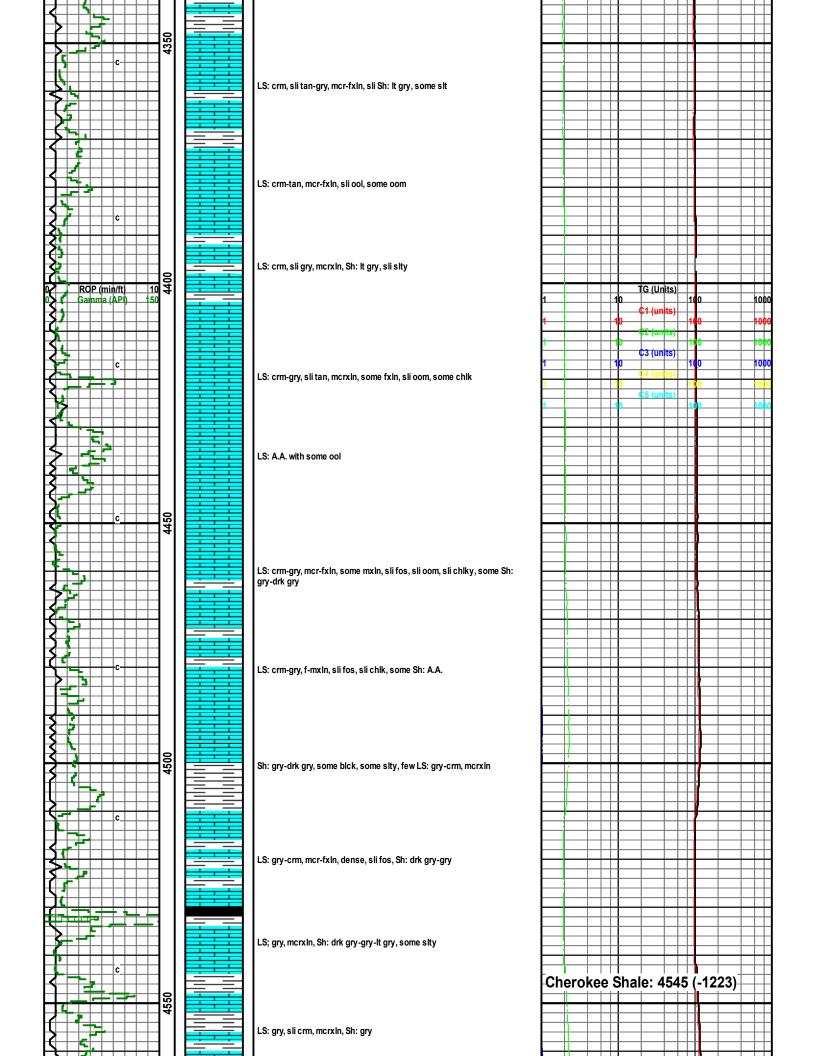
Trilobite Testing, Inc. Ref. No. 84633 Printed: 2016.01.03 @ 12:04:49

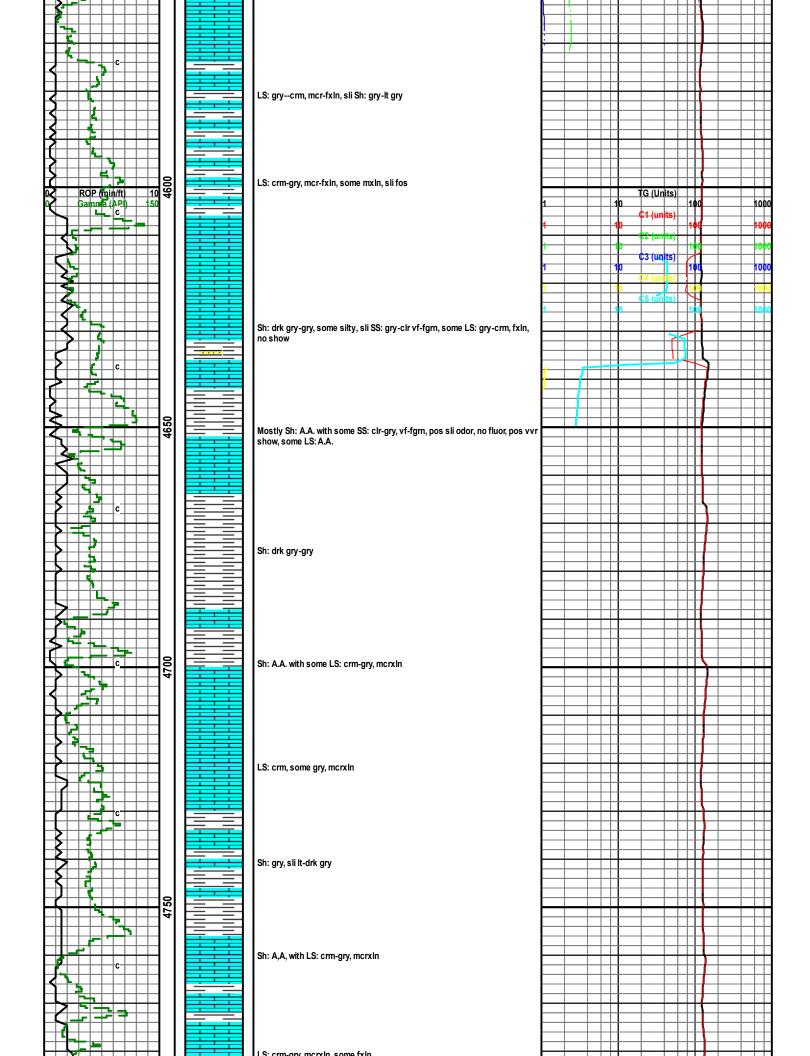


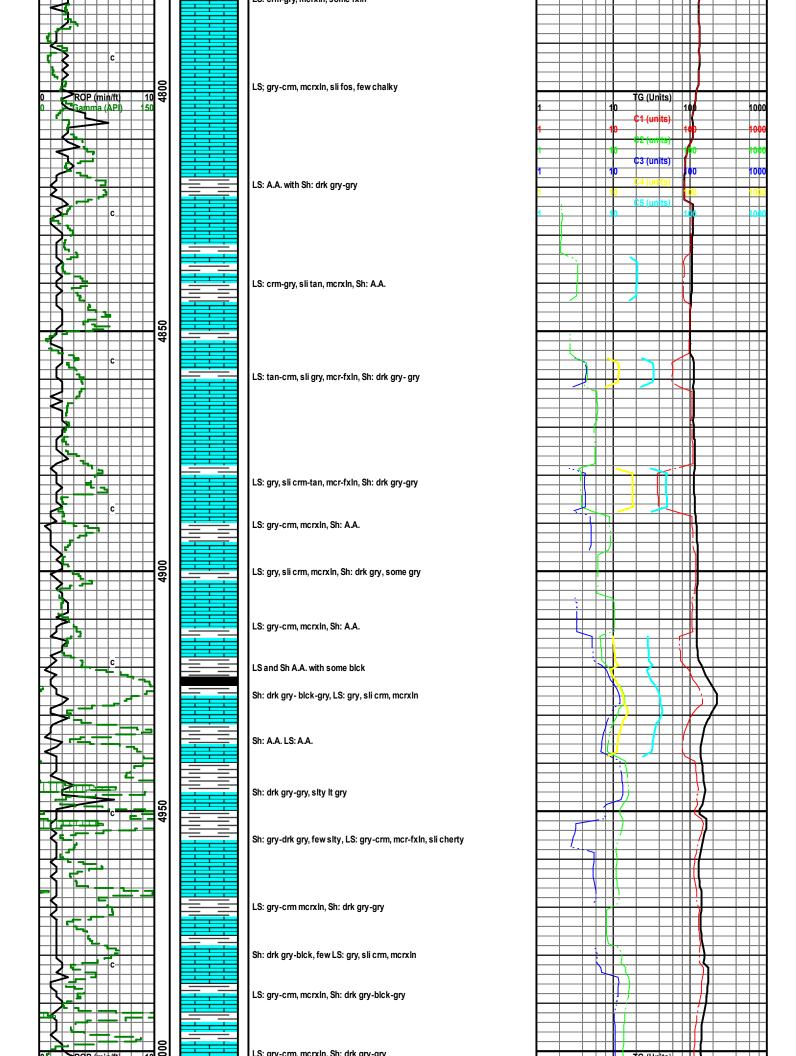
Tribulular Yeshing, Inc Bul No. 83835 Printed 2016.01.04.00.04.03.50

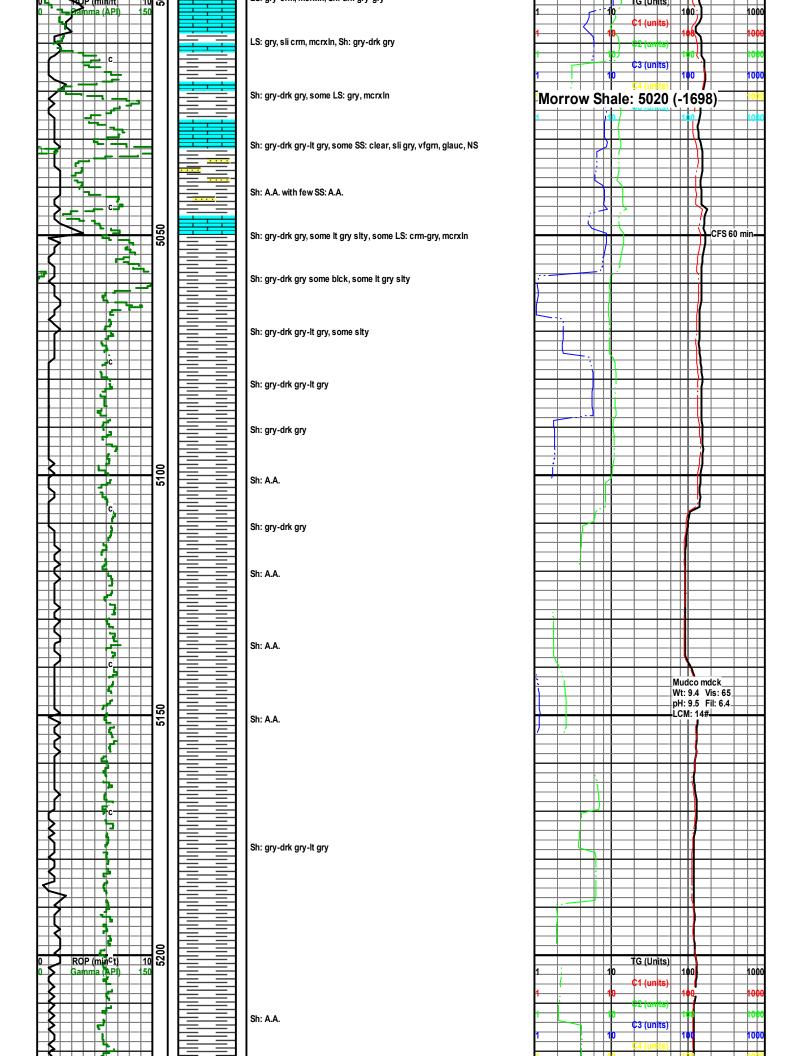


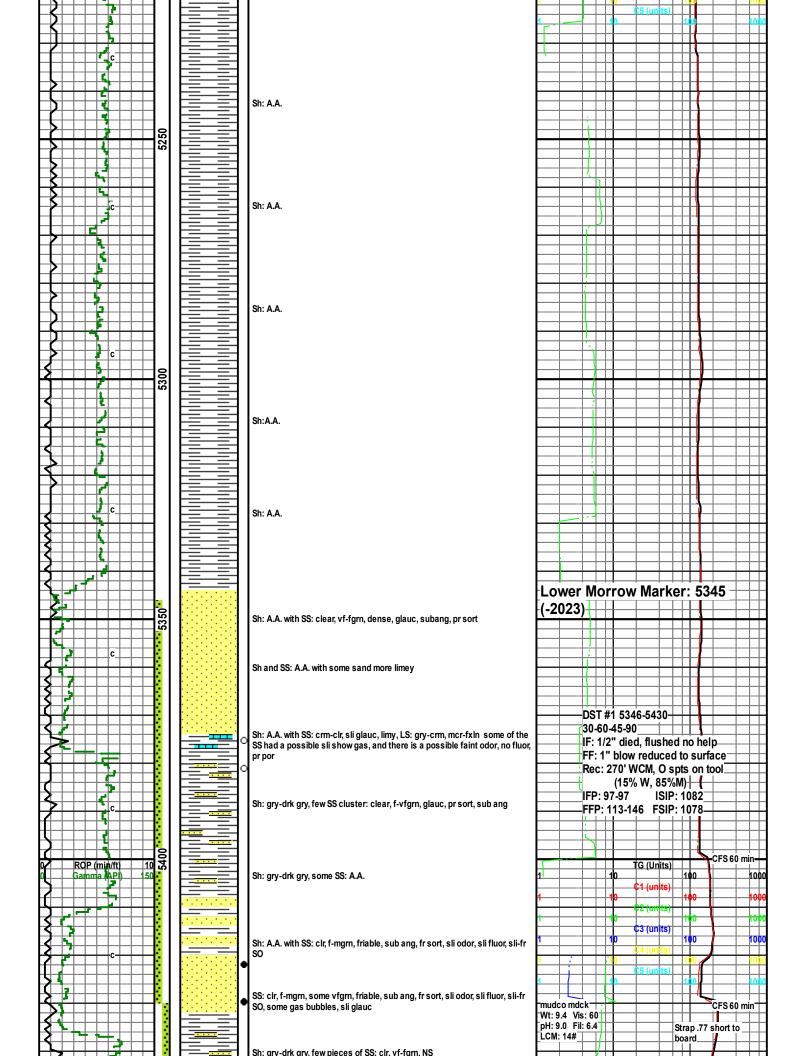


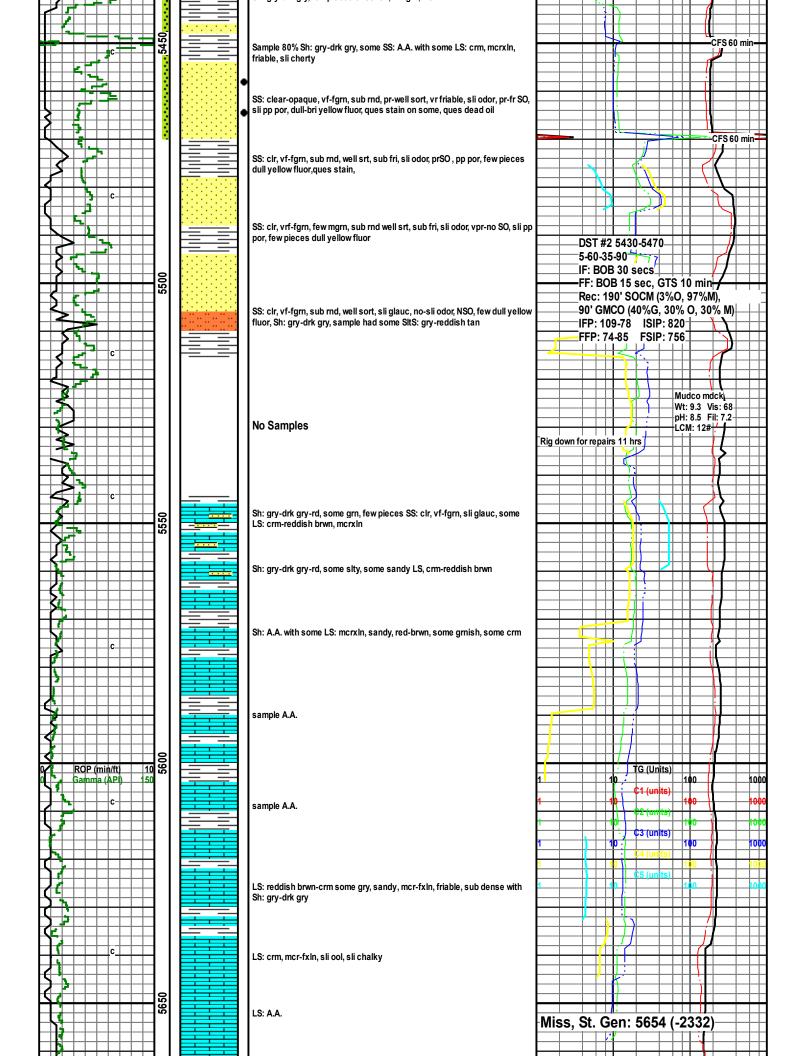


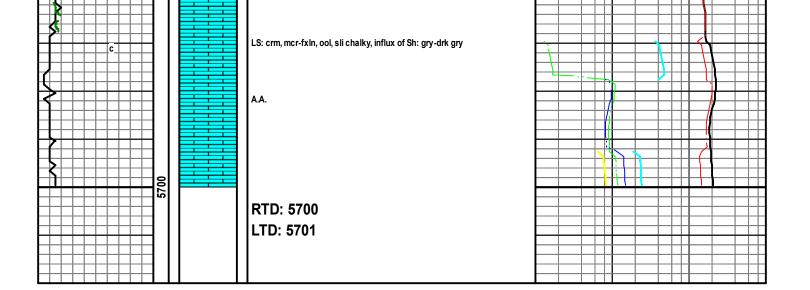














Liberal Yard #171 hone 620-624-2277 - 1700 S. Country Estate Road, Liberal KS 67901

PRESSURE PUMPING Job Log

Customer:	Ken	White Explor	ation		Coment Pump No.:	38117, 19	919 24Hrs.	Operator TRK No.:	789	38
Address:	1.500				Ticket #:		06778 A		· · · · · · · · · · · · · · · · · · ·	19831, 14284
City, State, Zip:		Wichita Ks			Job Type:		Z42 - Cement Surface Casing			Margarito
Service District:		Liberal Ks	***********		Well Type:		OIL			
Well Name and No.:		Arnold #1			Well Location:	6,29,40	County: Stanton State:		Ks	
Type of (1	Sacks			Additives			Truck Lo		113
			3% C	ALCIU	M CHLORIDE, 1/4#	POLYFLAKE			I	
A-Con' Bl	end	300			.2% WCA1		27808, 19	9883 Mario	Front	Back
A-Con' Bl	end	130	3% C	ALCIU	M CHLORIDE, 1/4# .2% WCA1	POLYFLAKE,	19831, 142	84 Margarito	Front	Back
Premium Plus	Cement	50	2% (CALCIL	JM CHLORIDE, 1/4#	POLYFLAKE	19831, 142	84 Margarito	Front	Back
Premium Plus	Cement	100	2% (CALCIL	IM CHLORIDE, 1/4#	POLYFLAKE	19831, 142	84 Margarito	Front	Back
Lead/T	ail:	Weight #1 Gal.	Cu/F	t/sk	Water Requ	irements	CU. FT.	Man	Hours / Perso	nnel
Lead	d:	11.4	2.9	95	18.	1	1268.5	Man Hours:		
Tail	=	12	2.3	37	14		118.5			
Tail		14.8	1.3	34	6.3	3	134	# of Men on Job:	4	}
Time		Volume	Pu	mps	Pressu	ire(PSI)	į (Description of Oper	ration and Materia	ls
(am/pm)	(BPM)	(BBLS)	τ	С	Tubing	Casing				
2:45							On Location, Wait on Rig Wiper Trip, Circulating			
13:45							Run Casing & Float Equipment			
2:15 PM						-2	Safety Meeting w/ B.E.S. Employees			
2:30 PM							Rig Up			
3:30 PM							Rig Up P.C. amd Circulate			
15:45					:		Safety Meeting w/ Rig Crew			
4:00 PM							Pressure Test to 2500psi			
16:10	2.9	225.9 slurry				20		Pump 430sk	'A-Con' Blend	
17:27	2.9	21,1 slurry						Pump 50sk 12	# Premium Plu	ıs
17:37	2.9	23.8 slurry					Pump	100sk 14.8# P	remium Plus (Cement
17:46								Shutdown	/ Drop Plug	
17:47								Dîspla	cement	
	2	6		ļ				Hole Went	on Vacume	
	1.3	20								······································
·		30					Begin Sta	ging Cement V	Vait 15 Minute	s at a Time
	1	40				***************************************		u + w		·····
	1	50				20			ntinuously	
19:10								Slow Mu	d Returns	
	1	60	<u> </u>	<u> </u>		60				
	1	70				60				
Simo Hala	1 40 4 (41)	80	<u> </u>		47041	150	77/05	1		
Size Hole	12 1/4"	Depth	 	·········	1721'		TYPE		In#-	<u> </u>
Size & Wt. Csg.	8 5/8" 24#		<u> </u>		New / Used		Packer		Depth	
tbg. Top Plugs	 	Depth	 	<u> </u>			Retainer Perfs		Depth	
i ob Linda	1	Type	<u> </u>		<u> </u>	Racia Raci			CIBP	
Overtones - O'	ستر	Tua	4		۵.	Basic Repre		<i> 2 '</i>	Daniel Beck	12
Customer Sign	iature: X	JUAN -	TIN	70(<u> </u>	Basic Signat		Danie	x Elle	<u> </u>
				Date of Serv	rice:	12/28/2015				



Liberal Yard #171 hone 620-624-2277 - 1700 S. Country Esta、 Road, Liberal KS 67901

SURBRUMPING Job Log

Customer:	Ken \	White Explora	tion		Cement Pump No.:	38117, 199	19 24Hrs.	Operator TRK No.:	78938	3
Address:					Ticket #:	1717 06	5778 A	Bulk TRK No.:		
City, State, Zip:					Job Type:		Z42 - Cei	ment Surface Casing		
Service District:		Liberal Ks		***************************************	Well Type:			OIL		
Vell Name and No.:		Amold #1			Well Location:	6,29,40	County:	Stanton	State:	Ks
Туре	of Cmt	Sacks			Additives			Truck Loa	ided On	
									Front	Back
			~~~~						Cront	Do ale
									Front	Back
1	FW11-			. 1 . 1	VA/stas Dan		00.55	14 1	Front	Back
Lead Lea		Weight #1 Gal.	Yie	∋IQ	Water Req	uirements	CU. FT.	Man Hours:	lours / Personr	iei
Ta						······································	0	# of Men on Job:	4	
Time		Volume	Pri	mps	Proce	ure(PSI)			ation and Materials	
(am/pm)	(BPM)	(BBLS)	т	С	Tubing	Casing		escription of oper	ation and materials	
(0.8	90				340				
	0.8	100				300				
8:20 PM	0.8	106.7				200		Plug Landed,	Pressure Up	
	0	106.7				830	Releas	se Back Float	Held Job Comp	lete
										·····
					·					
				<u> </u>		····	<u> </u>			
	-	i		<u> </u>						

			~	†				····		
								,		
				ļ						
Olma 11-1-	40.411	D	<u> </u>	1	47041		TVD	1		
Size Hole Size & Wt. Csg.	12 1/4"	Depth			1721' New / Used		TYPE	-	Donth	
tbg.	8 5/8" 24#	Depth Depth		<u>0</u> 0	New / Used		Packer Retainer		Depth Depth	
Top Plugs	О	Туре		<u> </u>			Perfs		CiBP	
	1	- 784				Basic Represe			Daniel Beck	
Customer Si	gnature: 🎺	JUAN!	٠٠١٨	14	(0	Basic Signatur		Daniel		 · · · · · · · · · · · · · · · · · ·
						Date of Service		12/28/2015		



Liberal Yard #1717—Phone 620-624-2277 - 1700 S. Country Esta Road, Liberal KS 67901

PRESSURE PUMPING Job Log

Customer:	Ken White Exploration			Cement Pump No.:	38117, 19919 8 Hrs.		Operator TRK No.:			
Address:					Ticket #:	1717 06			14355, 37725 Margarito	
City, State, Zip:		Wichita Ks			Job Type:		Z42 Top Out Surface Casing			
Service District:		Liberal Ks			Well Type:	OIL				
ell Name and No.:	No.: Arnold #1			Well Location:	6,29,40	County:	Stanton	State:	Ks	
Туре о	f Cmt	Sacks			Additives			Truck Loa	aded On	
Premium Plu	us Cement	200		2	2% CALCIUM CHLO	RIDE	14355, 377	25 Margarito	Front	Back
Premium Plu	us Cement	200			NEAT		14355, 377	25 Margarito	Front	Back
								,	Front	Back
Lead/		Weight #1 Gal.		-t/sk	Water Req		CU. FT.	Man I	Hours / Person	nel
Lea		14.8		34	6.3		268	Man Hours:		······································
Ta	il:	14.8	1.	34	6.3	34	268	# of Men on Job:	3	
Time		Volume	Pu	mps	Press	ure(PSI)	C	escription of Oper	ration and Material	s
(am/pm)	(BPM)	(BBLS)	Т	С	Tubing	Casing				
15:00				ļ				On Loc	· · · · · · · · · · · · · · · · · · ·	·
15:15									B.E.S. Person	
3:30 PM		***************************************					Rig		Tubing and Ta	ıg
4:05 PM	1.9	47.7 slurry					Pump 200sk w/ 2%C.C.			
4:30 PM				ļ			Cement To Cellar			
18:30	e	***************************************					Wait Two Hours and Check Cement			
		***************************************		<u> </u>			Cement Fell Back 10' Top Off			
19:40	1	19.0 slumy		<u> </u>			Pump 80sk w/ 2% C.C.			
19:45				<u> </u>			Cellar Has Cement			
								Job Coi	mplete	
				<u></u>						
				<u> </u>						
				<u> </u>		***************************************				
				<u> </u>				· ·		
· · · · · · · · · · · · · · · · · · ·	***************************************									
						1				
				ļ		····				······································
			<u> </u>	ļ					······································	
				_						
				<u> </u>	······································	·····				
Ohra Hali	40.41			L			7.05			
Size Hole	12 1/4"	Depth			Niero Zilio d		TYPE		In	
Size & Wt. Csg.	8 5/8" 24 #	Depth	ļ		New / Used		Packer		Depth	
tbg. Top Plugs		Depth	 				Retainer		Depth	
rop riugs		Туре		,		D	Perfs	<u> </u>	CIBP	
		1	S#			Basic Represe		9	Daniel Beck	7
Customer Signature: Lynn Kinow						Basic Signatur		Daniel	1 Benk	<u> </u>
						Date of Servic	e:	12/29/2015		

Attached to ACO-1 Form for WHITE EXPLORATION, INC. ARNOLD #1 490' FSL and 1515' FEL Section 6-29S-40W Stanton County, Kansas API# 15-187-21324-00-00

Surface Casing Cement

Cemented with 430 sacks of A-Con Blend Cement with 3% CC, ¼# polyflake and .2% WCA-1 and 150 Sacks of Premium Plus Cement with 2% CC and ¼# polyflake.

From surface, ran in 1" pipe along casing and stopped @ 125'. Mix and pump 200 sacks common cement with 2% CC and filled to top.

Production Casing Cement

Cemented Bottom Stage with 60 sacks of A-Con Blend Cement with 3% CC, and ¼# polyflake/sack followed by 200 sacks of AA2 Cement with 5% W-60, 10% salt, .6% C-15, ¼# defoamer and 5# gilsonite/sack.

Cemented top stage thru DV Tool @ 3216' with 315 sacks of A-Con Blend Cement with 3% CC and ¼# polyflake/sack and 100 sacks of Premium Plus Cement with 2% CC and ¼ polyflake/sack. Cement circulated to surface.

Acid Treatment

Acidize with 1000 gallons of 7-1/2% Mud Acid

Fracture Treatment

Frac with 14,000# of 16/30 Sand and 3,000# of 16/30 Resin Coated Sand with 18,500 gallons of crosslinked gel fluid.



DRILL STEM TEST REPORT

white Exploration, Inc

Wichita, Ks 67206 ATTN: Andy White

Ste 100

1635 N Waterfront Pkw y

6 29s 40w Stanton, ks

Arnold #1

Tester:

Unit No:

Job Ticket: 64633

Test Start: 2016.01.02 @ 20:37:00

GENERAL INFORMATION:

Formation: Keys Sand

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

Time Tool Opened: 02:09:45
Time Test Ended: 08:43:45

Interval: 5348.00 ft (KB) To 5430.00 ft (KB) (TVD)

Total Depth: 5430.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3322.00 ft (KB)

Bradley Walter

3311.00 ft (CF)

DST#: 1

KB to GR/CF: 11.00 ft

Serial #: 8365 Inside

Press@RunDepth: 145.75 psig @ 5349.00 ft (KB) Capacity: 8000.00 psig

 Start Date:
 2016.01.02
 End Date:
 2016.01.03
 Last Calib.:
 2016.01.03

 Start Time:
 20:37:05
 End Time:
 08:43:45
 Time On Btm:
 2016.01.03 @ 02:09:00

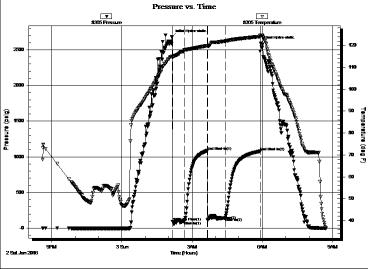
 Time Off Btm:
 2016.01.03 @ 05:55:45

TEST COMMENT: IF: 1 1/2" blow, died @ 10 min, Flushed tool, blow died.

ISI: No return.

FF: 1" blow, receded to surface.

FSI: No return.



_				
Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2681.50	115.10	Initial Hydro-static
	1	91.53	114.63	Open To Flow (1)
	32	96.98	117.88	Shut-In(1)
_	90	1082.18	119.88	End Shut-In(1)
	91	115.01	119.72	Open To Flow (2)
	136	145.75	121.95	Shut-In(2)
(dec 5)	226	1077.66	124.07	End Shut-In(2)
J	227	2592.40	124.68	Final Hydro-static

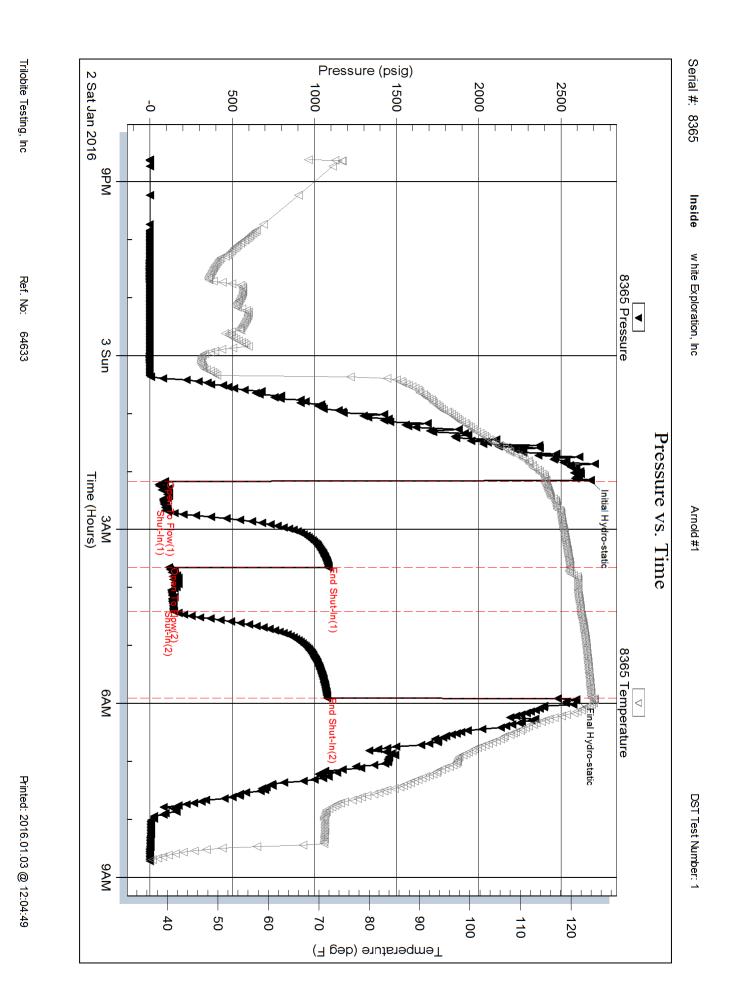
PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)
270.00	w cm 15w 85m (oil spots in tool)	1.33

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

Trilobite Testing, Inc Ref. No: 64633 Printed: 2016.01.03 @ 12:04:48





DRILL STEM TEST REPORT

white Exploration, Inc

6 29s 40w Stanton, ks

1635 N Waterfront Pkw y

Ste 100

Wichita, Ks 67206

ATTN: Andy White

Arnold #1

Tester:

Unit No:

Job Ticket: 63635

DST#: 2

Test Start: 2015.12.15 @ 18:30:00

GENERAL INFORMATION:

Formation: Key Sand

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Interval:

Time Test Ended: 02:13:15

5430.00 ft (KB) To 5470.00 ft (KB) (TVD)

Total Depth: 5470.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Bradley Walter

Reference Elevations: 3322.00 ft (KB)

3311.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8522 Outside

Press@RunDepth: 756.13 psig @ 5431.00 ft (KB) Capacity: 8000.00 psig

 Start Date:
 2016.01.03
 End Date:
 2016.01.04
 Last Calib.:
 2016.01.04

 Start Time:
 16:27:05
 End Time:
 02:02:00
 Time On Btm:
 2016.01.03 @ 20:14:15

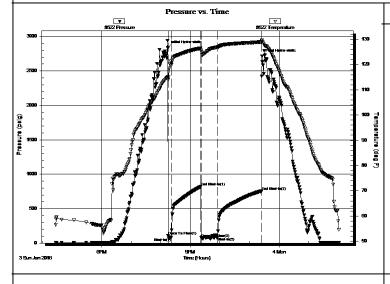
 Time Off Btm:
 2016.01.03 @ 23:25:15

TEST COMMENT: IF: BOB @ 30 sec.

ISI: No return.

FF: BOB @ 15 sec. Gas to surface @ 10 minutes. oil mist @ 35 min.

FSI: No return.



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2832.15	115.17	Initial Hydro-static
1	108.65	113.86	Open To Flow (1)
8	77.93	119.78	Shut-In(1)
67	819.54	126.47	End Shut-In(1)
68	73.50	125.54	Open To Flow (2)
101	84.50	126.89	Shut-In(2)
190	756.13	128.96	End Shut-In(2)
191	2710.48	129.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	gmco 40g 30m 30o	0.44
190.00	socm 2o 98m	0.93
0.00	gas to surface	0.00
* Recovery from mul	tiple tests	

Gas Rates

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

Trilobite Testing, Inc Ref. No: 63635 Printed: 2016.01.04 @ 04:03:50



DRILL STEM TEST REPORT

FLUID SUMMARY

white Exploration, Inc

6 29s 40w Stanton, ks

1635 N Waterfront Pkw y

Ste 100

Wichita, Ks 67206 Job Ticket: 63635

ATTN: Andy White

Arnold #1

63635 **DST#: 2**

Test Start: 2015.12.15 @ 18:30:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:0 deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:0 ppm

Viscosity: 60.00 sec/qt Cushion Volume: bbl

Water Loss: 8.99 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 500.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	gmco 40g 30m 30o	0.443
190.00	socm 2o 98m	0.934
0.00	gas to surface	0.000

Total Length: 280.00 ft Total Volume: 1.377 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Gas to surface @ 10 minutes second open.

Trilobite Testing, Inc Ref. No: 63635 Printed: 2016.01.04 @ 04:03:50

50

60

70

80

90

Temperature (deg F)

100

110

120

130

Trilobite Testing, Inc

Ref. No: