KOLAR Document ID: 1433979

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
Address 2:		Feet from North / South Line of Section
City: Sta	ate:	Feet from
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.xxxxxxx)
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 ☐ DH	☐ SWD	Elevation: Ground: Kelly Bushing:
	GSW	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)		Amount of Surface Pipe Set and Cemented at: Fee
	, Expl., etc.):	Multiple Stage Cementing Collar Used? Yes No
If Workover/Re-entry: Old Well Info		If yes, show depth set: Fee
Operator:		If Alternate II completion, cement circulated from:
Well Name:		feet depth to: sx cm
	Original Total Depth:	
□ Deepening□ Re-perf.□ Plug Back□ Liner	Conv. to EOR Conv. to SWD Conv. to GSW Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
O constitution of	Describ #	Chloride content: ppm Fluid volume: bbls
☐ Commingled	Permit #:	Dewatering method used:
☐ Dual Completion☐ SWD	Permit #:	
☐ EOR	Permit #:	Location of fluid disposal if hauled offsite:
☐ GSW	Permit #:	Operator Name:
3011		Lease Name: License #:
Spud Date or Date Rea	ahad TD Completion Date 27	Quarter Sec TwpS. R
Recompletion Date	ched TD Completion Date or 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: 1433979

Page Two

Operator Name: _				Lease Name:	ame: 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				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 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	Ainsworth Operating Co.			
Well Name	NELSON 1			
Doc ID	1433979			

All Electric Logs Run

micro-resitivity
dual-induction
compesated density neutron
cement bond

Form	ACO1 - Well Completion			
Operator	Ainsworth Operating Co.			
Well Name	NELSON 1			
Doc ID	1433979			

Tops

Name	Тор	Datum
Anhydrite	1954	338
Topeka	3303	-1011
Heebner	3500	-1208
Toronto	3525	-1233
Lansing	3544	-1252
ВКС	3731	-1560
Arbuckle	3852	-1627
LTD	3919	-1627

Form	ACO1 - Well Completion			
Operator	Ainsworth Operating Co.			
Well Name	NELSON 1			
Doc ID	1433979			

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	264	Common		80/20POZ, 2% gel., 3% cc
Production	7.875	5.5	17	3918	Common		82/20, 10% salt,5% gilsonite

TY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Cell 785-324-1041

Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665

No. 1049

Sec.	Twp.	Range	Jaime (County	State	On Location	Finish	
Date 10.31.18 33	36	22	61	aham	K3		1;000,v	
a seta on pengalah Topaksang. A Vengas Bahamatan Panganah			Locati	on Beave	4w 318 A	\$ 8N /2w.	Sinte	
Lease Velson	Vereine I.	Well No.	A let i	Owner	eo la fixe atria e en	see A lest of feologis	Tebres Veg of series	
Contractor HPS	0 0 10 10 10 10 10 10 10 10 10 10 10 10			To Quality O	ilwell Cementing,	Inc. ent cementing equipme	ent and furnish	
Type Job Port Copar			cementer an	d helper to assist	owner or contractor to	do work as listed.		
Hole Size	T.D.			Charge 7	insworth (Derofing		
Csg. 51/Z	Depth			Street		The second second second	noka kanana areha yara	
Tbg. Size 27/8	Depth			City		State	28 (4) (8 × 11) (10 (80)	
Tool (1974)	Depth	1952		The above wa	as done to satisfaction	on and supervision of own	er agent or contractor.	
Cement Left in Csg.	Shoe J	oint	TUALO	Cement Amo	ount Ordered 4	00 80/20 QMD	CYARPO	
Meas Line	Displac	e BC	ci fac s		cul.		# (
	MENT	ehause Bassas		Common	00/20	mpc	KILALI SE YTELALIQ	
Pumptrk 5 No. Cementer Helper	yai'g			Poz. Mix	31/2 31/2			
Bulktrk No. Driver Driver	7.1			Gel. 5	and to promote a	agisti (Separato Ma	11 (0)44(0)19 -	
Bulktrk 2 No. Driver Driver	2m/			Calcium				
JOB SERVICE	S& REMA	RKS		Hulls and converted to the year room beginned at the code and trenue				
Remarks: KCL Pat	Bedort	2	1 - 44 - 44 - 1	Salt				
Rat Hole	LECTAL TOURS		- FF 2(8)	Flowseal 2	00H	Maria edi non antarc,	s taxosti to sentitot	
Mouse Hole	10 J. W. 10 J. W.	12 (1) (2) (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2		Kol-Seal			ON, STATES	
Centralizers	talan (a)		MOY();	Mud CLR 48				
Baskets			as Magar	CFL-117 or CD110 CAF 38				
D/Vo Port Collar	Maria di P		psistin	Sand A Set 10 companies 200 THAUQ allers a because of to to the gra				
Vary Collar @ 1952.	Test	- to 800 T	£	Handling 400				
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Struct Circular	-el- ç	Jose Tu	old	Guide Shoe			3/14	
hash Dean	of fo	n5 joint	SK	Centralizer		kija olijiskat Jon Seri		
hash Olen	7. T. 1986			Baskets	mor ealbeartelen	Residence of the Control of the State of the		
				AFU Inserts	outous salister	and the sources by:	imon recent cine	
(USED 200	SKY E	sael)	7 30	Float Shoe		Billion seems o	DAKIONS BERNI	
				Latch Down				
Batteria y ordo y de ma	San yalla	14/25	and a re		DESCRIPTION			
				b swittered to	, strobon Jakone			
emalosinos collinos, T		Pumptrk Charge Out Collar 550						
		Mileage 46						
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est is seemant this YTLIAL	is to each	egilgen gang v	to to to the	CONTROLLER D	of he counted by the	Discoun	t sisk sema XX	
Signature Over We	ever les	7		koj ostroja, ta	over the YTUAU	Total Charge	9	

Y OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Cell 785-324-1041

Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665 No. 1042

Sec.	Twp.	Range	1	County	State	On Location	Finish	
Date 10-24-18 33	6	1	Core		K5		530	
NOV	to eta		Location	on Bogge 4	24 4W.	310 Rd 8N ZRD	Jaw Sinte	
Lease / 1300		Well No.		Owner To Ouglity Oi	ilwell Cementing	Inc.		
Contractor Discovery#4			You are here	by requested to	rent cementing equipment	and furnish		
Type Job Moduction Star	10	erran (solve)	·	cementer and	d helper to assis	t owner or contractor to do	work as listed.	
Hole Size 7 78	T.D2	3920		Charge A:	insworth	Oserating	Sukto ali ets	
Csg. 5/7	Depth	3918	ikis eki	Street	. Europe established	and Tomber and stay		
Tbg. Size	Depth			City		State	THE DEPOSE	
Tool Port Color \$49	Depth	1956		The above wa	s done to satisfact	on and supervision of owner	agent or contractor.	
Cement Left in Csg. 20,85	Shoe J	loint 20,85	ILATO	Cement Amo	ount Ordered	5 10/5/17 5/0	Isonite	
Meas Line	Displac	ce 90 /22	3	Sponal 1	mod clear +	2074 K/L	OMMOT -	
EQUIP	ABNT	wasi b tauriy.		Common	175	g to reserved on only ele	Introd Y PLAUD	
Pumptrk 5 No. Cementer Helper	arig .			Poz. Mix				
Bulktrk No. Driver Driver	17			Gel.	end hem reads	CHARGES: Napol	BARGARA	
Bulktrk 14 No. Driver Driver	Λ			Calcium			COLUMN SERVICE SERVICES	
JOB SERVICES	& REMA	IRKS	renio il	Hulls	was the way	n roen bejarlo ed Sved	Con sala menalo	
Remarks:				Salt 15				
Rat Hole 3051C	de nage	1940-098a.45		Flowseal Flowseal				
Mouse Hole 1551C		17 (81) 27 8 41		Kol-Seal 800#				
Centralizers			upid jil	Mud CLR 48 500 asl.				
Baskets		San pani diwasa		CFL-117 or CD110 CAF/38				
D/V or Port Collar		er belle og grede	politisky	Sand	o generated and	PYTUANO miw nestocky.	o ex auto assegui	
5/2 500 3918 B	Alexa	3897		Handling / %	96			
Est. Completion - Pam	D 522	Riol Mill C	Perof	Mileage	W. A.		ing a contraction	
10BO KCL Phy Re	thela	mospel.			FLOAT EQU	IPMENT		
Cornert 5/2 with	130	SK Clear	loves	Guide Shoe				
Displace Phy. 15+ 98				Centralizer		LIMB SHARMS JON SEED	TUALIO LE	
Ply landedo 1500 t	1.0	Dessure >0	400	Baskets /	ane sollers to ten	ville early views MY (SAC)	HARRANTES	
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				Pumptrk Cha	rge Otto el	Chan.		
				Mileage 4	6/1000	271 mg	<u>granden (* 1885)</u> Solving Holling (* 1889)	
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Signature			218 (25 f	a sai rake no		Total Charge		



DRILL STEM TEST REPORT

Ainsw orth Operating Co

4676 Commercial St.

Salem OR 97302-1902 ATTN: Austin Klaus

SE Ste 412

33 6s 22w Graham KS

Nelson #1

Tester:

Unit No:

Job Ticket: 64150

DST#: 1

Test Start: 2018.10.22 @ 11:11:00

GENERAL INFORMATION:

Formation: LKC " C - D "

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:17:31
Time Test Ended: 18:41:00

Interval: 3555.00 ft (KB) To 3600.00 ft (KB) (TVD)

Total Depth: 3600.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Jim Svaty

76

Reference Elevations:

2292.00 ft (KB)

2284.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8645 Outside

Press@RunDepth: 508.45 psig @ 3565.00 ft (KB) Capacity: 8000.00 psig

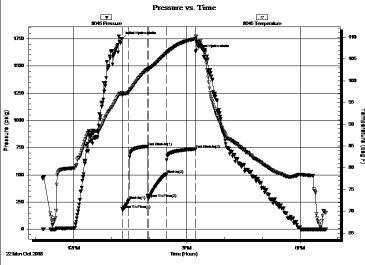
 Start Date:
 2018.10.22
 End Date:
 2018.10.22
 Last Calib.:
 2018.10.22
 2018.10.22

 Start Time:
 11:11:01
 End Time:
 18:41:01
 Time On Btm:
 2018.10.22 @ 13:17:01

 Time Off Btm:
 2018.10.22 @ 15:14:01

TEST COMMENT: 10-IFP- BOB in 1min.

30-ISIP- BOB in 14min. 30-FFP- BOB in 1min. 45-FSIP- BOB in 16min.



	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1748.84	97.16	Initial Hydro-static
	1	187.31	96.65	Open To Flow (1)
	11	268.20	97.48	Shut-In(1)
=	41	761.37	102.69	End Shut-In(1)
Temperature	42	288.70	102.54	Open To Flow (2)
THE STATE	71	508.45	106.39	Shut-In(2)
(deg	117	737.88	109.62	End Shut-In(2)
J	117	1631.22	110.26	Final Hydro-static
	1		1	

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)
190.00	GMCO 20%g 30%m 50%o	2.38
1330.00	G. Free Oil 35%g 65%o	18.66
0.00	950 GIP	0.00

Ods Mai	tates		
Choke (inches)	Proceuro (neig)	Cas Pate (Mof/d)	

Cac Datas

Trilobite Testing, Inc Ref. No: 64150 Printed: 2018.10.22 @ 19:00:15



DRILL STEM TEST REPORT

Ainsworth Operating Co

33 6s 22w Graham KS

4676 Commercial St. SE Ste 412

Salem OR 97302-1902

Job Ticket: 64150

Nelson #1

DST#: 1

ATTN: Austin Klaus

Test Start: 2018.10.22 @ 11:11:00

GENERAL INFORMATION:

Formation: LKC " C - D "

Deviated: No Whipstock: ft (KB)

KB) Test Type: Conventional Bottom Hole (Initial)
Tester: Jim Svaty

Unit No: 76

-

Time Tool Opened: 13:17:31 Time Test Ended: 18:41:00

3555.00 ft (KB) To 3600.00 ft (KB) (TVD)

Reference Elevations: 2292.00 ft (KB)

Total Depth: 3600.00 ft (KB) (TVD)

 $\begin{array}{ccc} & 2284.00 & \text{ft (CF)} \\ \text{KB to GR/CF:} & 8.00 & \text{ft} \end{array}$

Hole Diameter: 7.88 inches Hole Condition: Fair

Serial #: 6731

Inside

psig @

3565.00 ft (KB)

Capacity: Last Calib.: 8000.00 psig

Press@RunDepth: Start Date:

Interval:

2018.10.22

End Date:

2018.10.22 18:41:01

Time On Btm:

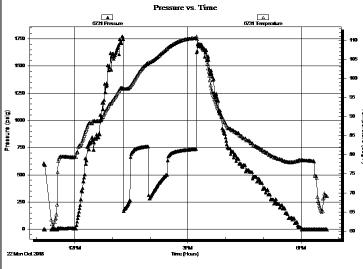
2018.10.22

Start Time: 11:11:01 End Time: 18:41:0

Time Off Btm:

TEST COMMENT: 10-IFP- BOB in 1min.

30-ISIP- BOB in 14min. 30-FFP- BOB in 1min. 45-FSIP- BOB in 16min.



PRESSURE SUM	/MARY
--------------	-------

	Time	Pressure	Temp	Annotation						
ı	(Min.)	(psig)	(deg F)							
ı										
2										
mper										
Temperature (deg F)										
deg F										
)										

Recovery

Description	Volume (bbl)
GMCO 20%g 30%m 50%o	2.38
G. Free Oil 35%g 65%o	18.66
950 GIP	0.00
	GMCO 20%g 30%m 50%o G. Free Oil 35%g 65%o

Gas Rates

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

Trilobite Testing, Inc Ref. No: 64150 Printed: 2018.10.22 @ 19:00:15



DRILL STEM TEST REPORT

FLUID SUMMARY

ppm

DST#: 1

Ainsw orth Operating Co

33 6s 22w Graham KS

4676 Commercial St.

Nelson #1

SE Ste 412 Salem OR 97302-1902

Job Ticket: 64150

ATTN: Austin Klaus

Test Start: 2018.10.22 @ 11:11:00

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil API: 32 deg API Water Salinity:

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

58.00 sec/qt

Water Loss: 8.79 in³ Gas Cushion Type:

Resistivity: Gas Cushion Pressure: ohm.m psig

2000.00 ppm Salinity: Filter Cake: 0.50 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	GMCO 20%g 30%m 50%o	2.383
1330.00	G. Free Oil 35%g 65%o	18.656
0.00	950 GIP	0.000

Total Length: 1520.00 ft Total Volume: 21.039 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Printed: 2018.10.22 @ 19:00:15 Trilobite Testing, Inc Ref. No: 64150

85

90

Temperature (deg F)

95

100

110

105

DST Test Number: 1

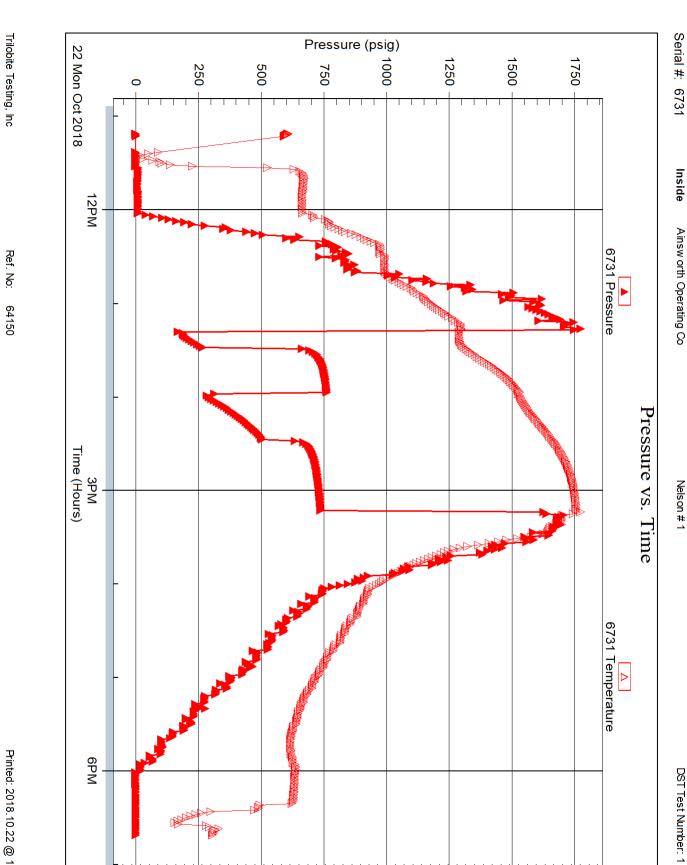
6PM

65

70

75

80



Temperature (deg F)

QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Cell 785-324-1041

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

No. 962

	Sec.	Twp.	Range	(County	State	On Location	Finish
Date 10 6 19	33	6	2)	l i	iahi	15		9: 00 PM
		_		Location	on 14.11 c	1 5 E 10	310 8 N 10	2 R.1 3/1
Lease Welson		1	Well No. # 1		Owner	•		5.,.
Contractor D. Scovers & H			To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish					
Type Job Said face			4		cementer and	d helper to assist own	er or contractor to do	work as listed.
Hole Size 12 /4		T.D.	164		Charge A	rsworth		
Csg. 8 5/6		Depth	26		Street		- ×	
Tbg. Size		Depth			City State			
Tool		Depth			The above wa	s done to satisfaction ar	d supervision of owner	
Cement Left in Csg. 26)	Shoe J	oint		Cement Amo	unt Ordered 200	8% 3%	cc 2000
Meas Line		Displac	ce 15 '4 b	11				
	EQUIPN	IENT			Common			
Pumptrk / No. Cemer Helper		10+1			Poz. Mix	*		
Bulktrk No. Driver Driver	-Da	vid ;			Gel.			
Bulktrk No. Driver	Ton	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			Calcium			
JOB SEF	RVICES	& REMA	RKS		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			
					Handling			
Ron 264 8	1/4 4		To la	2.7	Mileage			
Mrx 200 s					FLOAT EQUIPMENT			
Displaced	15	12 66	1 H,0		Guide Shoe			
					Centralizer			
Coment ci	r - 1	utest	f . t		Baskets			
					AFU Inserts			
					Float Shoe			
					Latch Down			
					Pumptrk Cha	ırge		
<u> </u>		704 V			Mileage			
					Ç		Tax	
V							Discount	
Signature A	200	V2	· ·				Total Charge	

AUSTIN B. KLAUS

Cell 785.650.3629 Work 785.483.3145 Ext 225

PO BOX 352 Russell, KS 67665 austin.klaus@johnofarmer.com

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

Well Name: Nelson #1

Location: Graham County

License Number: API #15-065-24154-0000

Spud Date: 10/6/2018

Drilling Completed: 10/24/2018

Region: Kansas

Surface Coordinates: Section 33, Township 6 South, Range 22 West

1,960' FNL & 2,400' FWL

Bottom Hole Vertical well w/ minimal deviation, same as above

Coordinates:

Ground Elevation (ft): 2,284

Logged Interval (ft): 3,200

To: RTD

K.B. Elevation (ft): 2,292 Total Depth (ft): 3,920

Formation: LKC, Arbuckle

Type of Drilling Fluid: Chemical (Andy's Mud)

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

OPERATOR

Company: Ainsworth Operating Co.

Address: 4676 Commercial St. SE, Suite 412

Salem, OR 97302

GEOLOGIST

Name: Austin Klaus

Company: John O. Farmer, Inc.

Address: 370 W. Wichita Ave.

Russell, KS 67665

Comments

The Nelson #1 was drilled by Discovery Drilling Rig #4 (Tool Pusher: Galen Gaschler).

The location for the Nelson #1 was discovered via 3D seismic survey. Rock samples were gathered and evaluated from 3,200' - 3,920'. Structurally, the Lansing top was picked 3' high to the comparison well, Stinemetz #1 (Mid-Continent Energy Corp.). Oil shows were encountered in LKC C,D,F,H,&J zones. Drill stem test #1 covered the LKC C-D zones and resulted in 1330' gassy, free oil and 760# bottom-hole pressure. Structure remained consistent through the Lansing, and the B/KC top was picked 4' high. Thinning occurred below the B/KC, which resulted in an Arbuckle picked 48' high to the comparison well. There were no oil shows in the Arbuckle. After evaluation of all oil shows, drill stem test results, & electric logs, it was decided that 5 1/2" production casing be set to further evaluate the Nelson #1 on 10/24/2040

