

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1131083

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #			API No. 15			
Name:			Spot Description:			
Address 1:			Sec	TwpS. R		
Address 2:			Feet	from North / South Line of Sectio		
City: St	ate: Zip	D:+	Feet	from East / West Line of Section		
Contact Person:			Footages Calculated from Ne	earest Outside Section Corner:		
Phone: ()			□ NE □ NW	☐ SE ☐ SW		
CONTRACTOR: License #			GPS Location: Lat:	, Long:		
Name:				g. xx.xxxxx) (e.gxxx.xxxxx)		
Wellsite Geologist:			Datum: NAD27 NAD27			
Purchaser:			County:			
Designate Type of Completion:			Lease Name:	Well #:		
New Well Re-	·Fntrv	Workover	Field Name:			
	_		Producing Formation:			
☐ Oil ☐ WSW	SWD	SIOW	Elevation: Ground:	Kelly Bushing:		
☐ Gas ☐ D&A ☐ OG	☐ ENHR	☐ SIGW ☐ Temp. Abd.	Total Vertical Depth:	Plug Back Total Depth:		
CM (Coal Bed Methane)	G3W	iemp. Abd.	Amount of Surface Pipe Set a	and Cemented at: Fee		
Cathodic Other (Core	Expl etc.)		Multiple Stage Cementing Co			
If Workover/Re-entry: Old Well Inf				Fee		
Operator:				nent circulated from:		
Well Name:			, ,	w/sx cm		
Original Comp. Date:			loot doparto.			
	_	NHR Conv. to SWD				
Deepening Re-perf. Plug Back	Conv. to GS		Drilling Fluid Management F (Data must be collected from the			
Commingled	Permit #:		Chloride content:	ppm Fluid volume: bbl		
Dual Completion	Permit #:		Dewatering method used:			
SWD	Permit #:		Location of fluid disposal if ha	auled offsite:		
☐ ENHR	Permit #:		On a water Name of			
GSW	Permit #:					
				License #:		
Spud Date or Date Rea	iched TD	Completion Date or		TwpS. R		
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				
Geologist Report Received				
UIC Distribution				
ALT I II III Approved by: Date:				

Page Two



Operator Name:			L	ease Name: _			Well #:	
Sec Twp	S. R	East We	est C	County:				
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in pres	sures, whether sh	ut-in pressur	e reached stati	c level, hydrosta	tic pressures, bott		
Final Radioactivity Lo files must be submitted					gs must be ema	iled to kcc-well-log	gs@kcc.ks.go	. Digital electronic log
Drill Stem Tests Taker (Attach Additional		Yes	No	L		n (Top), Depth an		Sample
Samples Sent to Geo	logical Survey	Yes	No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		Yes Yes	No No					
List All E. Logs Run:								
		(CASING REC	ORD Ne	w Used			
		· ·		ıctor, surface, inte	ermediate, producti		T	
Purpose of String	Size Hole Drilled	Size Casin Set (In O.D		Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
		ADD	ITIONAL CEN	MENTING / SQL	JEEZE RECORD			
Purpose:	Depth Top Bottom	Type of Cem	ent #	Sacks Used		Type and Pe	ercent Additives	
Perforate Protect Casing	100 20111111							
Plug Back TD Plug Off Zone								
1 lag on zono								
Did you perform a hydrau	ulic fracturing treatment	on this well?			Yes	No (If No, ski)	o questions 2 ar	nd 3)
Does the volume of the to		•				_	o question 3)	(" 100 ")
Was the hydraulic fractur	ing treatment information	on submitted to the c	hemical disclo	sure registry?	Yes	No (If No, fill o	out Page Three	of the ACO-1)
Shots Per Foot		ION RECORD - Bri Footage of Each Int				cture, Shot, Cement		d Depth
	, ,				,		,	
TUBING RECORD:	Size:	Set At:	Pa	acker At:	Liner Run:			
						Yes No		
Date of First, Resumed	Production, SWD or Ef		cing Method: owing	Pumping	Gas Lift C	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls. G	as Mcf	Wate	er Bl	ols. G	ias-Oil Ratio	Gravity
DIODOCITI	ON OF CAS:		, 4 CT - 1		TION:		DRODUCTIO	AN INTEDVAL.
Vented Solo	ON OF GAS: Used on Lease	Open Ho		IOD OF COMPLE \Box		nmingled	PHODUCIIC	ON INTERVAL:
	bmit ACO-18.)	Other (S	necify)	(Submit		mit ACO-4)		

Form	ACO1 - Well Completion
Operator	Nor-West Kansas Oil, L.L.C.
Well Name	NIGHTENGALE 1
Doc ID	1131083

All Electric Logs Run

Sonic
Compensated Density Nutron
Dual Induction
Micro
Dual Receiver Cement Bond Log

Form	ACO1 - Well Completion
Operator	Nor-West Kansas Oil, L.L.C.
Well Name	NIGHTENGALE 1
Doc ID	1131083

Tops

Name	Тор	Datum
Anhydrite	2370	+667
Heebner	3930	-893
Lansing	3978	-941
Stark Shale	4264	-1227
Marmaton	4418	-1381
Myrick Station	4532	-1495
Fort Scott	4551	-1514
Cherokee	4578	-1541
Morrow Shale	4706	-1669

Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Sam Brownback, Governor

Mark Sievers, Chairman Thomas E. Wright, Commissioner Shari Feist Albrecht, Commissioner

April 02, 2013

Patrick G. Wanker, Sec.-Treas., Nor-West Kansas Oil, L.L.C. 20014 283 HWY WAKEENEY, KS 67672-2722

Re: ACO1 API 15-171-20925-00-00 NIGHTENGALE 1 NE/4 Sec.22-17S-34W Scott County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully, Patrick G. Wanker, Sec.-Treas.,



P. O. Box 466

Ness City, KS 67560

Off: 785-798-2300



Invoice

DATE	INVOICE#
2/5/2013	23809

BILL TO

Nor-West Kansas Oil, LLC 20014 283 Highway Wakeeney, KS 67672-2722 * Acidizing

* Cement

* Tool Rental

TERMS	Well N	lo. Lease	County	Contractor	We	II Туре	W	ell Category	Job Purpos	е	Operator
Net 30	#1	Nightengale	Scott	WW Drilling #2		Oil	D	evelopment	Cement 5-1/2"	L	David
PRICE	REF.	·	DESCRIPT	ION	-	QT	Y	UM	UNIT PRICE		AMOUNT
575D 579D 402-5 403-5 407-5 408-5 417-5 411-5 580 325 284 283 285 330 276 281 221 290 581D 583D		Mileage - 1 Way Pump Charge - Two 5 1/2" Centralizer 5 1/2" Cement Basl 5 1/2" Insert Float 3 5 1/2" D.V. Tool & 5 1/2" P.V. Latch I 5 1/2" Recipo Scraf Additional Hours (I) Standard Cement Calseal Salt CFR-1 Swift Multi-Density Flocele Mud Flush Liquid KCL (Clayf D-Air Service Charge Cer Drayage Subtotal Sales Tax Scott Cor	tet Shoe With Auto Plug Set Down Plug & Bacher of Circulate Mor Standard (MII)	affle e Than 1 Hour)		1,68	100 300	Job Each Each Each Each Each Hours Sacks Sack(s) Lb(s) Lb(s) Sacks Lb(s) Gallon(s) Gallon(s) Sacks	6.00 1,850.00 70.00 250.00 350.00 3,000.00 200.00 45.00 200.00 13.50 35.00 0.20 4.00 16.50 2.00 1.25 25.00 35.00 2.00 1.00		420.00 1,850.00 700.00T 750.00T 350.00T 3,000.00T 200.00T 1,800.00T 280.00T 180.00T 400.00T 4,950.00T 200.00T 625.00T 100.00T 175.00T 950.00 1,685.36
We A	ppre	ciate Your	Busines	s!	<u>.</u>	<u> </u>		Tota	<u> </u>		\$22,511.88

Hances Oil			COUNTY/PARISH Scoff	Cistation Cid
CHARGE TO: Nor-West Kangas	ADDRESS	CITY, STATE, ZIP CODE	LEASE Nathengale	7
L		Inc.	WELLIPROJECT NO.	DOTORET TO STORY
SWIFT		Services, Inc.	SERVICE LOCATIONS 1. Ness CIL KS	

23809 TICKET PAGE Ž

SERVICE LOCATIONS 1. Aug CIL KS		WELLIPROJECT NO.	9	LEASE		COUNTY/PARISH	STATE	C. II o.l.		PO C	DATE OW	OWNER	
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REFERENCE	PART NUMBER	BER	LOC ACCT	DF	a	DESCRIPTION		ату. и	UM QTY.	Mu	PRICE	AMOUNT	
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LEGAL TERMS: Customer hereby acknowledges and agrees to	Customer hereby	acknowledge	s and agrees t				SUR	SURVEY	AGREE DECIDED	UN- DIS-		9220	ر
the terms and conditions on the reverse side hereof which include,	ditions on the revel	rse side herec	of which include	REMIT	MIT PAYM	PAYMENT 10:	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	PERFORMED DOWN?			PAGE TOTAL		
hist are not limited to PAYMENT RELEASE INDENNITY and	IN PAYMENT R	AFI FASE IN	DEMNITY an				WE UNDERSTOOD AND	O AND		 	Ç	73 50011	

but are not limited to, PAYMENT, RELEASE, INDEMNITY, and **LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

N P.W. TIME SIGNED // 9:00 2-5-K

DATE SIGNED

SWIFT SERVICES, INC. **NESS CITY, KS 67560** P.O. BOX 466 785-798-2300

22,511,88 133410.2 1190> 86 4ub total **₹** TOTAL □ CUSTOMER DID NOT WISH TO RESPOND RE YOU SATISFIED WITH OUR SERVICE? WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? MET YOUR NEEDS? OUR SERVICE WAS PERFORMED WITHOUT DELAY?

> CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby SWIFT OPERATOR

APPROVAL

Thank You!

dges receipt of the materials and services listed on this ticket.

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PO Box 466
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Off: 785-798-2300

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	Services, Inc.	PRICE SECONDARY REFERENCE!		784	283	785	330	27%	281	TOTAL PORTION OF THE	240												281	583

11907,86

Library College Manufacture	with the		WELL NO.		SWIF	· Sec	viceo,	INC.	·		AGE	
DESCRIPTION OF OPERATION AND MATERIALS TD -4782 TD -4782 TP - 4778 TD -4782 TP - 4778 ST - 3 42.13 OU. Top of "60 23 Scribbars - "4" 5" 4" 1" 5" 4" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1"					T	Nigh	stengal	<u>e</u>	Coment St." Le	myshing (2stone	TICKET NO.	
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2245 2245 Short 5½ 15.5# Casing in well Onep Bull Circulate — Reciperate O305 6¾ 12 V 400 Plump 500gal Multilush O312 4½ 42 V 400 Plump 500gal Multilush O312 4½ 42 V 300 Mix 175 sks EA:2 w/4 Flocele @ 155 Worsh out Plump time. Release Latch down Pl 6¾ 57.2 V 200 Skort Osphacement 6¾ 57.2 V 300 Max Lift PSC O350 6¾ 113 V 900 Max Lift PSC O350 6¾ 113 V 1200 Open D.V. Tool — Circulate— O620 6¾ 20 V 300 Plump 20 th KCL Flush Plum RH (30 sks) O415 B B V 300 Open D.V. Tool — Circulate— O620 6¾ 20 V 300 Plump 20 th KCL Flush Plum RH (30 sks) O50								Back	L. # C # 17#	(10)	FV # 10 C3	<u> </u>
Start 5½ 15.5	····	200					 	K 177176	1-1-	DI A	3/2" 13.3	
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0415 B B V 1200 Open D.V. Tool — Circulate— 0620 634 20 V 300 Pump 20 th KCL Flush 16 Phy RH (30 sks) 150 V 20 Mix 270 sks SMD w/4* Flocele @ 11.24 0201 634 B V Shart Displacement 634 43 V 350 Lift PSE Circulate Circulate 072 634 55.0 V 500 Max Lift PSE to ce llev 072 634 55.8 V 1700 Land Top Phy Close D.V. Tool Release PSE Holel		0350						1	Lift PSC		-	
0620 634 20 V 300 Primp 20 HH KCL Flush 16 Phy RH (30 sks) 150 V 250 Mix 270 sks SMD w/4 Florele @ 11/24 024 634 B V Skirt Displacement 634 55,0 V 500 Max Lift PSC Circulate 10 sks 072 634 55,0 V 500 Max Lift PSC to ce llev- 072 634 55.8 V 1700 Land Top Phy Close D.V. Tool Release PSC Hold			6/7	IID			1700	Land	Latch Down	Plug Rela	se Hold	
0620 634 20 V 300 Primp 20 HH KCL Flush 16 Phy RH (30 sks) 150 V 250 Mix 270 sks SMD w/4 Florele @ 11/24 024 634 B V Skirt Displacement 634 55,0 V 500 Max Lift PSC Circulate 10 sks 072 634 55,0 V 500 Max Lift PSC to ce llev- 072 634 55.8 V 1700 Land Top Phy Close D.V. Tool Release PSC Hold	_	OUIS-	es'		-+							-
0620 634 20 V 300 Pump 20 bbl KCL Flush 16 Phy RH (30 sks) 150 V 20 Mix 270 sks SMD w/4 Flocele @ 11e24 024 634 B V Start Displacement 634 43 V 350 Lift PSE Circulate 10shs 634 55.0 V 500 Max Lift PSE to ce 11ev- 072 634 55.8 V 1700 Land Top Plus Close O.V. Tool Release PSE Hold		<u> </u>	کم	B			1200 (Open 1	D.V. Tool		irculate -	
16 Phy RH OSS Mix 270 sks SMD w/4 * Flocele @ 11/24 Washout Pump & Line Release Top Phy 634 43 Start Displacement 350 Lift PSE Circulate 10shs 634 55.0 Soo Max Lift PSE to ce liev- 1700 Land Top Phy Close D.V. Tool Release PSE Hold		ACIO	131				[
150 V 250 Mix 270 sks SMD w/4 Flocele @ 11.24 OZH 63/4 B V Start Displacement 63/4 43 V 350 Lift PSC Circulate 10shs 63/4 55.0 V 500 Max Lift PSC to ce Her OND 63/4 55.8 V 1700 Land Top Plus Close D.V. Tool Release PSC Hold Wash up Truck		<u> </u>	674				300	Pump	20 by KC	L Flush		
OZY 63/4 B V Start Displacement 674 43 V 350 Lift PSE Circulate 105/55 674 55,0 V 500 Max Lift PSE to ce llev- OXX 63/4 55.8 V 1700 Land Top Plug Close D.V. Tool Release PSE Hold Wash up Truck		M"20						Plus	RH	130	sks	_
Washout Pump & Line Release Top Hung 674 43 674 55.0 Max Lift PSE Circulate 105/55 OND 63/7 55.8 Max Lift PSE Release PSE Hold Wash up Truck	\dashv	(630)		120			350 1	Mix J	170 sks SM	D w 1/4#	Florela () (1).	
674 43 V 350 Lift PSE Circulate 105/55 634 55.0 V 500 Max Lift PSE to celler— 0712 634 55.8 V 1700 Land Top Plug Close D.V. Tool Release PSE Hold Wash up Truck										7	E 1102A	H
674 43 V 350 Lift PSE Circulate 105/55 634 55.0 V 500 Max Lift PSE to celler— 0712 634 55.8 V 1700 Land Top Plug Close D.V. Tool Release PSE Hold Wash up Truck	+	49.704	/3/				L	Jashoi	it Pum + Liv	ne Ralina	- Top Plus	_
OND 63/7 55.8 V 1700 Land Top Plug Close D.V. Tool Release PSE Hold Wash up Truck	+	001					6 5	Start 1	Displacement	- Neicast	2 100 11mg	
OND 63/7 55.8 V 1700 Land Top Plug Close D.V. Tool Release PSE Hold Wash up Truck							350 1	ift P	SC	Chan	1.1 10001	
Release PSE Hold Wash up Truck			(<i>ES,0</i>		_	SOO n	Jax L	ich est	- C14C1	celler	_
Release PSE Hold Wash up Truck	0	712-	6/4	55.8			700/	and	For Plus Ch	nc - 10 12	T /	_
Wash up Truck							Q	elece	PSP U	lal	1001	_
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Lomple to	0	800			1			ob C	up Truck			-
					 			ول مار	<u>implete</u>			
					 					hank You		



REMIT TO

Consolidated Oil Well Services, LLC Dept. 970 P.O. Box 4346 Houston, TX 77210-4346

MAIN OFFICE P.O. Box 884 Chanute, KS 66720 620/431-9210 • 1-800/467-8676 Fax 620/431-0012

INVOICE Invoice #

256321

Invoice Date:

01/30/2013

Terms: 10/10/30,n/30

Page

NOR-WEST KANSAS OIL, LLC 20014 283 HIGHWAY WAKEENEY KS 67672-2722 (785)743-2769

NIGHTENGALE #1 39260 22-17-34

01-28-2013 KS

#4242

Part Number	Description	Qty	Unit Price	Total
1104S	CLASS "A" CEMENT (SALE)	200.00	17.6500	3530.00
1102	CALCIUM CHLORIDE (50#)	564.00	.8900	501.96
1118B	PREMIUM GEL / BENTONITE	376.00	.2500	94.00
1111	SODIUM CHLORIDE (GRANULA	100.00	.0000	.00
Sublet Performed	Description			Total
9996-130	CEMENT MATERIAL DISCOUNT			-412.60
9995-130	CEMENT EQUIPMENT DISCOUNT			-201.65
Descriptio	n	Houng	Unit Price	metell
				Total
399 CEMENT PUM	P (SURFACE)	1.00	1085.00	1085.00
	MILEAGE (ONE WAY)	45.00	5.00	225.00
566 TON MILEAG	E DELIVERY	1.00	706.50	706.50

Amount Due 6484.91 if paid after 03/01/2013

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Parte.	4125 96 Fraight.	ሰበ ጥኋም፣	ሚለ በር ደበፍ	E026 /1

.00 Misc: Labor:

.00 Total:

5836.41

Sublt:

-614.25 Supplies:

.00 Change:

Signed

Date



5407A

11 11

TICK NUMBER_ LOCATION Oakle FOREMAN Kellin 69 No

O Boy 884 Ct	hanute, KS 667	₂₀ FIE	LD TICKE	T & TREAT	MENT REF	PORT		,
20-431-9210 (or 800-467-8676	 }		CEMEN	Т			COUNTY
DATE	CUSTOMER#		NAME & NUM	MBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-28-13	5666	Wighte	ncale	# /	コス	17	34	Scott
LICTOMED			\mathcal{O}	Scott Cit				550/55
		19 ne 96 E	<u> </u>	North	TRUCK#	DRIVER	TRUCK#	DRIVER
ALLING ADDRE	ESS			Rd 190		Damon/9		
				-8ω	566	Philk		
IΤΥ		STATE	ZIP CODE	1/21				<u> </u>
				N W SMO				
ов түре <u> 5</u> 4	afface	HOLE SIZE_	2/4	HOLE DEPTH	233	CASING SIZE & W	EIGHT <u>87</u> 2	8244
ASING DEPTH		DRILL PIPE	·	TUBING			OTHER	···
LURRY WEIGH	IT 148	SLURRY VOL_		WATER gal/s	k	CEMENT LEFT in	CASING_20/	
	13/2bb1	DISPLACEMEN		MIX PSI		RATE		
EMARKS: <	202	0025 0	2.0500		on wale)#2, nook	ed up	10
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ACTOR	OX AUD	1 10-				<u> </u>	Thank	Woy
		-,					Helly a. (Veri-
ACCOUNT CODE	QUANITY	or UNITS		DESCRIPTION o	f SERVICES or P	RODUCT	UNIT PRICE	TOTAL
5401S	1		PUMP CHAP	RGE			108500	108500
5406	41.5		MILEAGE				500	22500
11045	20	~SK=	Clas	5 A Cer	lent		1765	3530
1107	51.1	THE	- · · · · · · · · · · · · · · · · · · ·	2 ium	chian:	de	.89	501.94
	1 7 7	1-1-		tonite	20		25	9400
1118B	 	<u> </u>	10511	16/11/15-	Prior Barrier			
	1		+		1 -15		167_	75/ 50

SALES TAX ESTIMATED Ollie TOTAL 8:30RM

J91+

DATE 1-28 TITLE_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313

Night1DST2

Company Nor-West Kansas Oil, LLC	_Lease & Well No. Nightengale	No. 1
Elevation 3037 KB Formation Pleasanton	 _ Effective Pay	CO276
Date 2-3-13 Sec. 22 Twp. 17S Range_	O O N V Coott	State Kansas
	amond Representative	Iogah MaCallia
Formation Test No. 2 Interval Tested from	4,380 ft.	Total Depth 4,380 ft
Packer Depth 4,332 ft. Size 6 3/4 in.	Packer Depth	ft. Sizein.
Packer Depth 4,337 ft. Size 6 3/4 in.		ft. Size in.
Depth of Selective Zone Setft.		-
4.240	Recorder Number	8471 Cap. 10,000 psi.
10p (\colds) Depth (moldo)	Recorder Number	******
Dottom recorder popul (outside)	Recorder Number	_
Below Straddle Recorder Depthft.		
Drilling Contractor WW Drilling, LLC - Rig 2	Drill Collar Length	124 ft I.D. 2 1/4 in
Mud Type Chemical Viscosity 59		ft I.Din.
Weight 9.3 Water Loss 8.0 cc.	Drill Pipe Length	4,180 ft I.D. 3 1/2 in.
ChloridesP.P.M.	Test Tool Length	33 ft Tool Size 3 1/2-IF in
Jars: Make Sterling Serial Number 3	Anchor Length	43 ft. Size 4 1/2-FH in.
Did Well Flow? No Reversed Out No		. Bottom Choke Size 5/8 in
	Main Hole Size 7 7/8 ir	n. Tool Joint Size <u>4 1/2-XH</u> in.
Blow: 1st Open: Weak, 1/4 in. blow increasing to 3 ins. in 30 mins. No blow I 2nd Open: No blow increasing to 1 1/2 ins. in 30 mins. No blow back of	luring shut-in	
Recovered 114 ft. of slightly oil specked mud = .560880 bbls. (Grind	out: Trace-oit; 100%-mud)	
Recoveredft. of		
Recovered ft. of		
Recovered ft. of		
Recovered ft. of		
Recovered ft. of		
Remarks_Tool Sample Grind Out: 100%-mud		
Diesel in bucket.		
		4009
Time Set Packer(s) 1:57 A.M. Time Started off Bottor	· '	num Temperature108°
Initial Hydrostatic Pressure(A)	2087 P.S.I.	20
Initial Flow PeriodMinutes 30 (B)	6 P.S.I. to (C)	39 P.S.I.
Initial Closed In PeriodMinutes 30 (D)_	1212 _{P.S.I.}	
	36 P.S.I to (F)	⁶² P.S.I.

Diamond **Testing**

General information Report

General Information

Company Name Nor-West KS Oil LLC

Contact Well Name

Pat Wanker

Unique Well ID **Surface Location**

Nightengale #1 DST #2 Pleasanton 4337-4380' SEC 22-17S-34W Scott County

Well License Number

Job Number Representative Report Date

Jacob McCallie Well Operator Nor-West KS OII LLC 2013/02/03

Field Well Type Wildcat Vertical

Prepared By

Jacob McCallle

Test Type

Drill Stem Test

Formation Well Fluid Type DST #2 Pleasanton 4337-4380* 01 Oil

Start Test Time

23:50:00

Start Test Date

2013/02/02

Final Test Time

05:52:00

Final Test Date

2013/02/03

Gauge Name Gauge Serial Number 8471

Test Results

Recovered:

114'

SLOSM

Trace-O 100%-M

Tool Sample: 100%-M



P.O. Box 157 HOISINGTON, KANSAS 67544 (620) 653-7550 • (800) 542-7313 Night1DST1

Company Nor-West Kansas Oil, LLC	Lease & Well No. Nigh	tengale No. 1
Elevation 3037 KB Formation Lansing/Kansas City	"L" Effective Pay	Ft. Ticket No. S0274
0.0.40	Range 34W County	Scott State Kansas
Test Approved By Sean P. Deenihan	Diamond Representative	
Formation Test No1 Interval Tested from	4,306 ft. to 4,3	345 ft. Total Depth 4,345 ft
Packer Depth 4,301 ft. Size 6 3/4 in		ft. Sizein.
Packer Depth 4,306 ft. Size 6 3/4 in		ft. Sizein.
Depth of Selective Zone Setft.	i. Tuoke boptii_	The Oldo
Top Recorder Depth (Inside) 4,288 ft	:. Recorder Numb	per 8471 Cap. 10,000 psi.
Bottom Recorder Depth (Outside) 4,342		2054 5 700
Below Straddle Recorder Depthf		per Cappsi.
Drilling Contractor WW Drilling, LLC - Rig 2	Drill Collar Length	124 ft I.D. 2 1/4 in.
Mud Type Chemical Viscosity 62		ft l.Din.
Weight 8.9 Water Loss 8.0	cc. Drill Pipe Length	
Chlorides 9,200 P.P.M.		33 ft Tool Size 3 1/2-IF in.
	Anchor Length	39 ft. Size 4 1/2-FH in.
Did Well Flow? No Reversed Out No	Surface Choke Size	
	Main Hole Size	
Discuss det Opens Morek 4/4 in blow increasing to 2.2/4 inc. in 20 mins		
Blow: 1st Open: Weak, 1/4 in. blow increasing to 3 3/4 ins. in 30 mins 2nd Open: No blow increasing to 6 ins. in 60 mins. No blow be	· · · · · · · · · · · · · · · · · · ·	
210 Open. No blow inclodeding to 0 ms. in 00 mins. 140 blow is	Jok during Shut-in.	
Recovered 58 ft. of oil specked slightly water cut mud = .825	340 bbls. (Grind out: 1%-oil; 22%-wate	er; 77%-mud)
Recovered 124 ft. of watery mud = .610080 bbls. (Grind out:	45%-water; 55%-mud) Chlorides: 24,0	000 Ppm PH: 8.0 RW: .33 @ 58°
Recovered 182 ft. of TOTAL FLUID = 1.435420 bbis.		
Recovered ft. of		
Recoveredft. of		
Recoveredft. of		
Remarks Tool Sample Grind Out: 28%-water; 72%-mud		
Diesel in bucket.		
Time Set Packer(s) 11:30 A.M. Time Started off		Maximum Temperature113°
Initial Hydrostatic Pressure	(A)P.S.I.	
Initial Flow PeriodMinutes 30		to (C)52 P.S.I.
Initial Closed In PeriodMinutes 45	_(D)P.S.I.	
Final Flow PeriodMinutes 60		to (F)P.S.I.
Final Closed In PeriodMinutes 60	_(G)P.S.I.	
Final Hydrostatic Pressure	/H) 2095 ps i	

Diamond **Testing**

General information Report

General Information

Company Name Nor-West KS Oil LLC

Contact Pat Wanker Well Name Nightengale #1 DST #1 L/KC "L" 4306-4345' Job Number S0274 Unique Well ID Representative Jacob McCallie **Surface Location** SEC 22-17S-34W Scott County Well Operator Nor-West KS OII LLC Well License Number Report Date 2013/02/02 Field Wildcat Prepared By Jacob McCallie Well Type

Vertical

Test Type **Drill Stem Test** Formation DST #1 L/KC "L" 4306-4345" Well Fluid Type

06 Water Start Test Time 09:30:00 **Final Test Time** 16:50:00 Start Test Date

2013/02/02 **Final Test Date** 2013/02/02 **Gauge Name** 30035

Gauge Serial Number

Test Results

RECOVERED:

58' **OSSLWCM** 1%O 22%W 77%M 124' 45%W 55%M 182 **TOTAL FLUID**

PH: 8

RW: .33 @ 58 degrees F Chlorides: 24,000 PPM

TOOL SAMPLE:

28% W 72% M



P.O. Box 157 HOISINGTON, KANSAS 67544 (620) 653-7550 • (800) 542-7313

Night1DST3

Elevation 3037 KB	nsas Oil, LLC Formation Marm	aton		Lease & Well No		· · · · · · · · · · · · · · · · · · ·	
Date 2-3-13 Sec	22 Twa	178		Effective Pay	Scott	Ft.	Ticket No. S027
Test Approved By		anihar	Range				Kansas
				Diamond Representati	ve	Jacob N	/ICCallie
Formation Test No. 3	Interval Te	sted from _		4,387 ft. to	4,484 ft.	Total Depth	4,484 _{ft}
Packer Depth4	1,382 ft.	Size63	^{3/4} in.				
Packer Depth4	.,387 ft. S	Size63	3/4 _{in.}				in.
Depth of Selective Zone	Set		_ft.				
Top Recorder Depth (Insi	de)	4,30	39 ft.	Recorder N	umher	8471 Ca	10,000
Bottom Recorder Depth (Outside)		81 ft.	Recorder N			p. 10,000 p. 5 700
Below Straddle Recorder	Depth		· · · · · · · · · · · · · · · · · · ·			Ou	p. 5,700 ps
Drilling Contractor WW D							pp
Mud Type Chemical				Drill Collar Length_		<u>124</u> ft i.	D. 2 1/4
Weight 9.1	Viscosity			Weight Pipe Length		ft l.	.Di
	Water Loss ,000		cc.	Drill Pipe Length		4,230 ft 1	.D. 3 1/2 i
Jars: Make Sterling		_P.P.M.	3	Test Tool Length		33_ft T	ool Size <u>3 1/2-IF</u> i
Did Well Flow? No	Senai iyu	mber		Anchor Length 34' I			
DIG AAGII LIOM (140)	Reversed Out	163		Surface Choke Size	¹ in.	Bottom Cho	ke Size 5/8 i
				Main Hole Size			Size 4 1/2-XH ir
Blow <u>:</u> 1st Open: Fair, 3 in. blow	increasing. Off botto	om of bucket i	n 2 mins. B	Main Hole Size	7 7/8 in.		
Blow: 1st Open: Fair, 3 in. blow 2nd Open: Fair, 3 in. blow	increasing. Off botto	om of bucket i	n 2 mins. Bin 2 mins. B	Main Hole Size	7 7/8 in.	Tool Joint S	
2nd Open: Fair, 3 in. blow	increasing, Off bott	om of bucket i	n 2 mins. Bin 2 mins. B	Main Hole Size	7 7/8 in.	Tool Joint S	
2nd Open: Fair, 3 in. blow Recovered 831 ft. of gas	increasing. Off bott	om of bucket	in 2 mins. B	Main Hole Size ottom of bucket blow back of bucket blow back	7 7/8 in.	Tool Joint S	
2nd Open: Fair, 3 in. blow Recovered 831 ft. of gas Recovered 1,515 ft. of clea	in pipe an oil = 21.558450 b	om of bucket bls. (Grind o	in 2 mins. B ut: 100%-oil)	Main Hole Size ottom of bucket blow back of the blow back of the blow back Gravity: 26 @ 60°	7 7/8 in. during shut-in. during shut-in.	Tool Joint S	
2nd Open: Fair, 3 in. blow Recovered 831 ft. of gas Recovered 1,515 ft. of clea	increasing. Off bott in pipe an oil = 21.558450 b htly mud cut gassy o	om of bucket bls. (Grind o	in 2 mins. B ut: 100%-oil)	Main Hole Size ottom of bucket blow back of the blow back of the blow back Gravity: 26 @ 60°	7 7/8 in. during shut-in. during shut-in.	Tool Joint S	
2nd Open: Fair, 3 in. blow Recovered 831 ft. of gas Recovered 1,515 ft. of clea Recovered 363 ft. of slight Recovered 1,878 ft. of TOT	in pipe an oil = 21.558450 b htly mud cut gassy of	bls. (Grind obliced) bls. (500 bbls.	ut: 100%-oil) bbls. (Grind	Main Hole Size ottom of bucket blow back of tottom of bucket blow back Gravity: 26 @ 60° d out: 35%-gas; 50%-oii; 15	7 7/8 in. during shut-in. during shut-in.	Tool Joint S	Size 4 1/2-XH ii
2nd Open: Fair, 3 in. blow Recovered 831 ft. of gas Recovered 1,515 ft. of clea Recovered 363 ft. of slight Recovered 1,878 ft. of TOT	in pipe an oil = 21.558450 b htly mud cut gassy of	bls. (Grind obliced) bls. (500 bbls.	ut: 100%-oil) bbls. (Grind	Main Hole Size ottom of bucket blow back of tottom of bucket blow back Gravity: 26 @ 60° d out: 35%-gas; 50%-oii; 15	7 7/8 in. during shut-in. during shut-in.	Tool Joint S	Size 4 1/2-XH ii
2nd Open: Fair, 3 in. blow Recovered 831 ft. of gas Recovered 1,515 ft. of clea Recovered 363 ft. of slight Recovered 1,878 ft. of TOT Recovered ft. of	in pipe an oil = 21.558450 b htly mud cut gassy of	bls. (Grind o bil = 4.011050 500 bbls.	ut: 100%-oil) bbls. (Grind	Main Hole Size ottom of bucket blow back of tottom of bucket blow back Gravity: 26 @ 60° d out: 35%-gas; 50%-oii; 15	7 7/8 in. during shut-in. during shut-in.	Tool Joint S	Size 4 1/2-XH ii
Recovered 831 ft. of gas Recovered 1,515 ft. of clea Recovered 363 ft. of slight Recovered 1,878 ft. of TOT Recovered ft. of Recovered ft. of t.	in pipe an oil = 21.558450 b htly mud cut gassy of	bls. (Grind o bil = 4.011050 500 bbls.	ut: 100%-oil) bbls. (Grind	Main Hole Size ottom of bucket blow back of tottom of bucket blow back Gravity: 26 @ 60° d out: 35%-gas; 50%-oii; 15	7 7/8 in. during shut-in. during shut-in.	Tool Joint S	Size <u>4 1/2-XH</u> ii
2nd Open: Fair, 3 in. blow Recovered 831 ft. of gas Recovered 1,515 ft. of clea Recovered 363 ft. of slight Recovered 1,878 ft. of TOT Recovered ft. of ft. of t.	increasing. Off bott in pipe an oil = 21.558450 b htly mud cut gassy of FAL FLUID = 25.569	bls. (Grind o bil = 4.011050 500 bbls.	ut: 100%-oil) bbls. (Grind	Main Hole Size ottom of bucket blow back of tottom of bucket blow back Gravity: 26 @ 60° d out: 35%-gas; 50%-oii; 15	7 7/8 in. during shut-in. during shut-in.	Tool Joint S	Size <u>4 1/2-XH</u> ii
Recovered 831 ft. of gas Recovered 1,515 ft. of clea Recovered 363 ft. of sligh Recovered 1,878 ft. of TOT Recovered ft. of Recovered ft. of t.	in pipe an oil = 21.558450 b httly mud cut gassy of FAL FLUID = 25.569 d Out: 100%-oil	bls. (Grind o bil = 4.011050 500 bbls.	ut: 100%-oil) bbls. (Grind	Main Hole Size_ottom of bucket blow back of bucket blow back blow back. Gravity: 26 @ 60° d out: 35%-gas; 50%-oii; 15	7 7/8 in. during shut-in. during shut-in.	Tool Joint S	Size 4 1/2-XH _i i
Recovered 831 ft. of gas Recovered 1,515 ft. of clea Recovered 363 ft. of sligh Recovered 1,878 ft. of TOT Recovered ft. of Recovered ft. of Diesel in bucket.	in pipe an oil = 21.558450 b httly mud cut gassy of TAL FLUID = 25.569 d Out: 100%-oil	bls. (Grind o	ut: 100%-oil) bbls. (Grine	Main Hole Size oftom of bucket blow back of totom of bucket blow back Gravity: 26 @ 60° d out: 35%-gas; 50%-oil; 15	7 7/8 in. during shut-in. during shut-in. s%-mud) Maximun	Tool Joint S	Size 4 1/2-XH ii
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Recovered 831 ft. of gas Recovered 1,515 ft. of clea Recovered 363 ft. of slight Recovered 1,878 ft. of TOT Recovered ft. of t. of t	in pipe an oil = 21.558450 b httly mud cut gassy of TAL FLUID = 25.569 d Out: 100%-oil	bls. (Grind o bil = 4.011050 500 bbls. e Started o	ut: 100%-oil) bbls. (Grine	Main Hole Size ottom of bucket blow back of bottom of bucket blow back Gravity: 26 @ 60° d out: 35%-gas; 50%-oil; 15 11:30 P.M. 2096 P.S.I. 86 P.S.I.	7 7/8 in. during shut-in. during shut-in. %-mud) Maximum to (C)	Tool Joint S	Size 4 1/2-XH _i
Recovered 831 ft. of gas Recovered 1,515 ft. of clea Recovered 363 ft. of slight Recovered 1,878 ft. of TOT Recovered ft. of t. of t	in pipe an oil = 21.558450 b httly mud cut gassy of TAL FLUID = 25.569 d Out: 100%-oil P.M. TimMinutesMinutes	bls. (Grind o bil = 4.011050 500 bbls. e Started o 30	ut: 100%-oil) bbls. (Grine	Main Hole Size ottom of bucket blow back of tottom of bucket blow back Gravity: 26 @ 60° d out: 35%-gas; 50%-oil; 15	7 7/8 in. during shut-in. during shut-in. %-mud) Maximum to (C)	Tool Joint S	Size 4 1/2-XH i
Recovered 831 ft. of gas Recovered 1,515 ft. of clea Recovered 363 ft. of slight Recovered 1,878 ft. of Clea Recovered ft. of Recovered ft. of Clea Recove	increasing. Off bott in pipe an oil = 21.558450 b htty mud cut gassy of FAL FLUID = 25.569 d Out: 100%-oil P.M. TimMinutesMinutesMinutes	bls. (Grind o bil = 4.011050 500 bbls. e Started o 30 30 30	ut: 100%-oil) bbls. (Grine off Bottom(A)(B)	Main Hole Size ottom of bucket blow back of bottom of bucket blow back Gravity: 26 @ 60° d out: 35%-gas; 50%-oil; 15 11:30 P.M. 2096 P.S.I. 86 P.S.I. 1256 P.S.I.	7 7/8 in. during shut-in. during shut-in. %-mud) Maximum to (C)	Tool Joint S	123° 71 P.S.I.
Recovered 831 ft. of gas Recovered 1,515 ft. of clea Recovered 363 ft. of slight Recovered 1,878 ft. of TOT Recovered ft. of Recovered ft. of Diesel in bucket. Total Sample Grind Diesel in bucket. Sime Set Packer(s) 9:00 Ft. of Diesel in bucket. Sitial Hydrostatic Pressure Sitial Flow Period	increasing. Off bott in pipe an oil = 21.558450 b htty mud cut gassy of FAL FLUID = 25.569 d Out: 100%-oil P.M. TimMinutesMinutesMinutes	bls. (Grind o bil = 4.011050 500 bbls. e Started o 30 30 30	ut: 100%-oil) bbls. (Grind off Bottom(A)(B)(D)	Main Hole Size ottom of bucket blow back of bottom of bucket blow back Gravity: 26 @ 60° d out: 35%-gas; 50%-oil; 15 11:30 P.M. 2096 P.S.I. 86 P.S.I. 1256 P.S.I.	7 7/8 in. during shut-in. during shut-in. s%-mud) Maximum to (C)	Tool Joint S	Size 4 1/2-XH _i

Diamond Testing

General information Report

General Information

Company Name Nor-West KS Oil LLC

Contact Pat Wanker Well Name Nightengal #1 Job Number S0276 Unique Well ID DST #3 Marmaton 4387-4484' Representative Jacob McCalile Surface Location SEC 22-17S-34W Scott County Well Operator Nor-West KS Oil LLC Well License Number Report Date 2013/02/03 Field Wildcat Prepared By Jacob McCalile Well Type Vertical

Test Type Drill Stem Test
Formation DST #3 Marmaton 4387-4484'
Well Fluid Type 01 Oil

Vell Fluid Type 01 Oil Start Test Time 18:56:00 Final Test Time 03:12:00

 Start Test Date
 2013/02/03

 Final Test Date
 2013/02/04

Gauge Name 8471 Gauge Serial Number

Test Results

RECOVERED:

831' GIP 1515' CO 100% O GRAVITY: 26 @ 60 degrees F 363' SLMCGO 35% G 50% O 15% M 1878' TOTAL FLUID



P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313

Night1DST2

Company Nor-West Kansas Oil, LLC	_Lease & Well No. Nightengale	No. 1
Elevation 3037 KB Formation Pleasanton	 _ Effective Pay	CO276
Date 2-3-13 Sec. 22 Twp. 17S Range_	O O N V Coott	State Kansas
	amond Representative	Iogah MaCallia
Formation Test No. 2 Interval Tested from	4,380 ft.	Total Depth 4,380 ft
Packer Depth 4,332 ft. Size 6 3/4 in.	Packer Depth	ft. Sizein.
Packer Depth 4,337 ft. Size 6 3/4 in.		ft. Size in.
Depth of Selective Zone Setft.		-
4.240	Recorder Number	8471 Cap. 10,000 psi.
10p (\colds) Depth (moldo)	Recorder Number	******
Dottom recorder popul (outside)	Recorder Number	_
Below Straddle Recorder Depthft.		
Drilling Contractor WW Drilling, LLC - Rig 2	Drill Collar Length	124 ft I.D. 2 1/4 in
Mud Type Chemical Viscosity 59		ft I.Din.
Weight 9.3 Water Loss 8.0 cc.	Drill Pipe Length	4,180 ft I.D. 3 1/2 in.
Chlorides 11,500 P.P.M.	Test Tool Length	33 ft Tool Size 3 1/2-IF in
Jars: Make Sterling Serial Number 3	Anchor Length	43 ft. Size 4 1/2-FH in.
Did Well Flow? No Reversed Out No		. Bottom Choke Size 5/8 in
	Main Hole Size 7 7/8 ir	n. Tool Joint Size <u>4 1/2-XH</u> in.
Blow: 1st Open: Weak, 1/4 in. blow increasing to 3 ins. in 30 mins. No blow I 2nd Open: No blow increasing to 1 1/2 ins. in 30 mins. No blow back of	luring shut-in	
Recovered 114 ft. of slightly oil specked mud = .560880 bbls. (Grind	out: Trace-oit; 100%-mud)	
Recoveredft. of		
Recovered ft. of		
Recovered ft. of		
Recovered ft. of		
Recovered ft. of		
Remarks_Tool Sample Grind Out: 100%-mud		
Diesel in bucket.		
		4009
Time Set Packer(s) 1:57 A.M. Time Started off Bottor	· '	num Temperature108°
Initial Hydrostatic Pressure(A)	2087 P.S.I.	20
Initial Flow PeriodMinutes 30 (B)	6 P.S.I. to (C)	39 P.S.I.
Initial Closed In PeriodMinutes 30 (D)_	1212 _{P.S.I.}	
	36 P.S.I to (F)	⁶² P.S.I.

Diamond **Testing**

General information Report

General Information

Company Name Nor-West KS Oil LLC

Contact Well Name

Pat Wanker

Unique Well ID **Surface Location**

Nightengale #1 DST #2 Pleasanton 4337-4380' SEC 22-17S-34W Scott County

Well License Number

Job Number Representative Report Date

Jacob McCallie Well Operator Nor-West KS OII LLC 2013/02/03

Field Well Type Wildcat Vertical

Prepared By

Jacob McCallle

Test Type

Drill Stem Test

Formation Well Fluid Type DST #2 Pleasanton 4337-4380* 01 Oil

Start Test Time

23:50:00

Start Test Date

2013/02/02

Final Test Time

05:52:00

Final Test Date

2013/02/03

Gauge Name Gauge Serial Number 8471

Test Results

Recovered:

114'

SLOSM

Trace-O 100%-M

Tool Sample: 100%-M



P.O. Box 157 HOISINGTON, KANSAS 67544 (620) 653-7550 • (800) 542-7313 Night1DST1

Company Nor-West Kansas Oil, LLC	Lease & Well No. Nigh	tengale No. 1
Elevation 3037 KB Formation Lansing/Kansas City	"L" Effective Pay	Ft. Ticket No. S0274
0.0.40	Range 34W County	Scott State Kansas
Test Approved By Sean P. Deenihan	Diamond Representative	
Formation Test No1 Interval Tested from	4,306 ft. to 4,3	345 ft. Total Depth 4,345 ft
Packer Depth 4,301 ft. Size 6 3/4 in		ft. Sizein.
Packer Depth 4,306 ft. Size 6 3/4 in		ft. Sizein.
Depth of Selective Zone Setft.	i. Tuoke boptii_	The Oldo
Top Recorder Depth (Inside) 4,288 ft	:. Recorder Numb	per8471 Cap. 10,000 psi.
Bottom Recorder Depth (Outside) 4,342		2054 5 700
Below Straddle Recorder Depthf		per Cappsi.
Drilling Contractor WW Drilling, LLC - Rig 2	Drill Collar Length	124 ft I.D. 2 1/4 in.
Mud Type Chemical Viscosity 62		ft l.Din.
Weight 8.9 Water Loss 8.0	cc. Drill Pipe Length	
Chlorides 9,200 P.P.M.		33 ft Tool Size 3 1/2-IF in.
	Anchor Length	39 ft. Size 4 1/2-FH in.
Did Well Flow? No Reversed Out No	Surface Choke Size	
	Main Hole Size	
Discuss det Opens Morek 4/4 in blow increasing to 2.2/4 inc. in 20 mins		
Blow: 1st Open: Weak, 1/4 in. blow increasing to 3 3/4 ins. in 30 mins 2nd Open: No blow increasing to 6 ins. in 60 mins. No blow be	· · · · · · · · · · · · · · · · · · ·	
210 Open. No blow inclodeding to 0 ms. in 00 mins. 140 blow is	Jok during Shut-in.	
Recovered 58 ft. of oil specked slightly water cut mud = .825	340 bbls. (Grind out: 1%-oil; 22%-wate	er; 77%-mud)
Recovered 124 ft. of watery mud = .610080 bbls. (Grind out:	45%-water; 55%-mud) Chlorides: 24,0	000 Ppm PH: 8.0 RW: .33 @ 58°
Recovered 182 ft. of TOTAL FLUID = 1.435420 bbis.		
Recovered ft. of		
Recoveredft. of		
Recoveredft. of		
Remarks Tool Sample Grind Out: 28%-water; 72%-mud		
Diesel in bucket.		
Time Set Packer(s) 11:30 A.M. Time Started off		Maximum Temperature113°
Initial Hydrostatic Pressure	(A)P.S.I.	
Initial Flow PeriodMinutes 30		to (C)52 P.S.I.
Initial Closed In PeriodMinutes 45	_(D)P.S.I.	
Final Flow PeriodMinutes 60		to (F)P.S.I.
Final Closed In PeriodMinutes 60	_(G)P.S.I.	
Final Hydrostatic Pressure	/H) 2095 ps i	

Diamond **Testing**

General information Report

General Information

Company Name Nor-West KS Oil LLC

Contact Pat Wanker Well Name Nightengale #1 DST #1 L/KC "L" 4306-4345' Job Number S0274 Unique Well ID Representative Jacob McCallie **Surface Location** SEC 22-17S-34W Scott County Well Operator Nor-West KS OII LLC Well License Number Report Date 2013/02/02 Field Wildcat Prepared By Jacob McCallie Well Type

Vertical

Test Type **Drill Stem Test** Formation DST #1 L/KC "L" 4306-4345" Well Fluid Type

06 Water Start Test Time 09:30:00 **Final Test Time** 16:50:00 Start Test Date

2013/02/02 **Final Test Date** 2013/02/02 **Gauge Name** 30035

Gauge Serial Number

Test Results

RECOVERED:

58' **OSSLWCM** 1%O 22%W 77%M 124' 45%W 55%M 182 **TOTAL FLUID**

PH: 8

RW: .33 @ 58 degrees F Chlorides: 24,000 PPM

TOOL SAMPLE:

28% W 72% M



P.O. Box 157 HOISINGTON, KANSAS 67544 (620) 653-7550 • (800) 542-7313

Night1DST3

Elevation 3037 KB	nsas Oil, LLC Formation Marm	aton		Lease & Well No		· · · · · · · · · · · · · · · · · · ·	
Date 2-3-13 Sec	22 Twa	178		Effective Pay	Scott	Ft.	Ticket No. S027
Test Approved By		anihar	Range				Kansas
				Diamond Representati	ve	Jacob N	/ICCallie
Formation Test No. 3	Interval Te	sted from _		4,387 ft. to	4,484 ft.	Total Depth	4,484 _{ft}
Packer Depth4	1,382 ft.	Size63	^{3/4} in.				
Packer Depth4	.,387 ft. S	Size63	3/4 _{in.}				in.
Depth of Selective Zone	Set		_ft.				
Top Recorder Depth (Insi	de)	4,30	39 ft.	Recorder N	umher	8471 Ca	10,000
Bottom Recorder Depth (Outside)		81 ft.	Recorder N			p. 10,000 p. 5 700
Below Straddle Recorder	Depth		· · · · · · · · · · · · · · · · · · ·			Ou	p. 5,700 ps
Drilling Contractor WW D							pp
Mud Type Chemical				Drill Collar Length_		<u>124</u> ft i.	D. 2 1/4
Weight 9.1	Viscosity			Weight Pipe Length		ft l.	.Di
	Water Loss ,000		cc.	Drill Pipe Length		4,230 ft 1	.D. 3 1/2 i
Jars: Make Sterling		_P.P.M.	3	Test Tool Length		33_ft T	ool Size <u>3 1/2-IF</u> i
Did Well Flow? No	Senai iyu	mber		Anchor Length 34' I			
DIG AAGII LIOM (140)	Reversed Out	163		Surface Choke Size	¹ in.	Bottom Cho	ke Size 5/8 i
				Main Hole Size			Size 4 1/2-XH ir
Blow <u>:</u> 1st Open: Fair, 3 in. blow	increasing. Off botto	om of bucket i	n 2 mins. B	Main Hole Size	7 7/8 in.		
Blow: 1st Open: Fair, 3 in. blow 2nd Open: Fair, 3 in. blow	increasing. Off botto	om of bucket i	n 2 mins. Bin 2 mins. B	Main Hole Size	7 7/8 in.	Tool Joint S	
2nd Open: Fair, 3 in. blow	increasing, Off bott	om of bucket i	n 2 mins. Bin 2 mins. B	Main Hole Size	7 7/8 in.	Tool Joint S	
2nd Open: Fair, 3 in. blow Recovered 831 ft. of gas	increasing. Off bott	om of bucket	in 2 mins. B	Main Hole Size ottom of bucket blow back of bucket blow back	7 7/8 in.	Tool Joint S	
2nd Open: Fair, 3 in. blow Recovered 831 ft. of gas Recovered 1,515 ft. of clea	in pipe an oil = 21.558450 b	om of bucket bls. (Grind o	in 2 mins. B ut: 100%-oil)	Main Hole Size ottom of bucket blow back of the blow back of the blow back Gravity: 26 @ 60°	7 7/8 in. during shut-in. during shut-in.	Tool Joint S	
2nd Open: Fair, 3 in. blow Recovered 831 ft. of gas Recovered 1,515 ft. of clea	increasing. Off bott in pipe an oil = 21.558450 b htly mud cut gassy o	om of bucket bls. (Grind o	in 2 mins. B ut: 100%-oil)	Main Hole Size ottom of bucket blow back of the blow back of the blow back Gravity: 26 @ 60°	7 7/8 in. during shut-in. during shut-in.	Tool Joint S	
2nd Open: Fair, 3 in. blow Recovered 831 ft. of gas Recovered 1,515 ft. of clea Recovered 363 ft. of slight Recovered 1,878 ft. of TOT	in pipe an oil = 21.558450 b htly mud cut gassy of	bls. (Grind obliced) bls. (500 bbls.	ut: 100%-oil) bbls. (Grind	Main Hole Size ottom of bucket blow back of tottom of bucket blow back Gravity: 26 @ 60° d out: 35%-gas; 50%-oii; 15	7 7/8 in. during shut-in. during shut-in.	Tool Joint S	Size 4 1/2-XH ii
2nd Open: Fair, 3 in. blow Recovered 831 ft. of gas Recovered 1,515 ft. of clea Recovered 363 ft. of slight Recovered 1,878 ft. of TOT	in pipe an oil = 21.558450 b htly mud cut gassy of	bls. (Grind obliced) bls. (500 bbls.	ut: 100%-oil) bbls. (Grind	Main Hole Size ottom of bucket blow back of tottom of bucket blow back Gravity: 26 @ 60° d out: 35%-gas; 50%-oii; 15	7 7/8 in. during shut-in. during shut-in.	Tool Joint S	Size 4 1/2-XH ii
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Recovered 831 ft. of gas Recovered 1,515 ft. of clea Recovered 363 ft. of slight Recovered 1,878 ft. of TOT Recovered ft. of Recovered ft. of t.	increasing. Off bott in pipe an oil = 21.558450 b htly mud cut gassy of FAL FLUID = 25.569	bls. (Grind o bil = 4.011050 500 bbls.	ut: 100%-oil) bbls. (Grind	Main Hole Size ottom of bucket blow back of tottom of bucket blow back Gravity: 26 @ 60° d out: 35%-gas; 50%-oii; 15	7 7/8 in. during shut-in. during shut-in.	Tool Joint S	Size <u>4 1/2-XH</u> ii
2nd Open: Fair, 3 in. blow Recovered 831 ft. of gas Recovered 1,515 ft. of clea Recovered 363 ft. of slight Recovered 1,878 ft. of TOT Recovered ft. of ft. of t.	increasing. Off bott in pipe an oil = 21.558450 b htly mud cut gassy of FAL FLUID = 25.569	bls. (Grind o bil = 4.011050 500 bbls.	ut: 100%-oil) bbls. (Grind	Main Hole Size ottom of bucket blow back of tottom of bucket blow back Gravity: 26 @ 60° d out: 35%-gas; 50%-oii; 15	7 7/8 in. during shut-in. during shut-in.	Tool Joint S	Size <u>4 1/2-XH</u> ii
Recovered 831 ft. of gas Recovered 1,515 ft. of clea Recovered 363 ft. of sligh Recovered 1,878 ft. of TOT Recovered ft. of Recovered ft. of t.	in pipe an oil = 21.558450 b httly mud cut gassy of FAL FLUID = 25.569 d Out: 100%-oil	bls. (Grind o bil = 4.011050 500 bbls.	ut: 100%-oil) bbls. (Grind	Main Hole Size_ottom of bucket blow back of bucket blow back blow back. Gravity: 26 @ 60° d out: 35%-gas; 50%-oii; 15	7 7/8 in. during shut-in. during shut-in.	Tool Joint S	Size 4 1/2-XH _i i
Recovered 831 ft. of gas Recovered 1,515 ft. of clea Recovered 363 ft. of sligh Recovered 1,878 ft. of TOT Recovered ft. of Recovered ft. of Diesel in bucket.	in pipe an oil = 21.558450 b httly mud cut gassy of TAL FLUID = 25.569 d Out: 100%-oil	bls. (Grind o	ut: 100%-oil) bbls. (Grine	Main Hole Size oftom of bucket blow back of totom of bucket blow back Gravity: 26 @ 60° d out: 35%-gas; 50%-oil; 15	7 7/8 in. during shut-in. during shut-in. s%-mud) Maximun	Tool Joint S	Size 4 1/2-XH ii
Recovered 831 ft. of gas Recovered 1,515 ft. of clea Recovered 363 ft. of slight Recovered 1,878 ft. of t. of clea Recovered ft. of cl	in pipe an oil = 21.558450 b htty mud cut gassy o FAL FLUID = 25.569 d Out: 100%-oil	bls. (Grind o bil = 4.011050 500 bbls.	ut: 100%-oil) bbls. (Grine	Main Hole Size ottom of bucket blow back of tottom of bucket blow back Gravity: 26 @ 60° d out: 35%-gas; 50%-oil; 15	7 7/8 in. during shut-in. during shut-in. s%-mud) Maximum	Tool Joint S	Size 4 1/2-XH i
Recovered 831 ft. of gas Recovered 1,515 ft. of clea Recovered 363 ft. of slight Recovered 1,878 ft. of TOT Recovered ft. of t. of t	in pipe an oil = 21.558450 b httly mud cut gassy of TAL FLUID = 25.569 d Out: 100%-oil	bls. (Grind o bil = 4.011050 500 bbls. e Started o	ut: 100%-oil) bbls. (Grine	Main Hole Size ottom of bucket blow back of bottom of bucket blow back Gravity: 26 @ 60° d out: 35%-gas; 50%-oil; 15 11:30 P.M. 2096 P.S.I. 86 P.S.I.	7 7/8 in. during shut-in. during shut-in. %-mud) Maximum to (C)	Tool Joint S	Size 4 1/2-XH _i
Recovered 831 ft. of gas Recovered 1,515 ft. of clea Recovered 363 ft. of slight Recovered 1,878 ft. of TOT Recovered ft. of t. of t	in pipe an oil = 21.558450 b httly mud cut gassy of TAL FLUID = 25.569 d Out: 100%-oil P.M. TimMinutesMinutes	bls. (Grind o bil = 4.011050 500 bbls. e Started o 30	ut: 100%-oil) bbls. (Grine	Main Hole Size ottom of bucket blow back of tottom of bucket blow back Gravity: 26 @ 60° d out: 35%-gas; 50%-oil; 15	7 7/8 in. during shut-in. during shut-in. %-mud) Maximum to (C)	Tool Joint S	Size 4 1/2-XH i
Recovered 831 ft. of gas Recovered 1,515 ft. of clea Recovered 363 ft. of slight Recovered 1,878 ft. of Clea Recovered ft. of Recovered ft. of Clea Recove	increasing. Off bott in pipe an oil = 21.558450 b htty mud cut gassy of FAL FLUID = 25.569 d Out: 100%-oil P.M. TimMinutesMinutesMinutes	bls. (Grind o bil = 4.011050 500 bbls. e Started o 30 30 30	ut: 100%-oil) bbls. (Grine off Bottom(A)(B)	Main Hole Size ottom of bucket blow back of bottom of bucket blow back Gravity: 26 @ 60° d out: 35%-gas; 50%-oil; 15 11:30 P.M. 2096 P.S.I. 86 P.S.I. 1256 P.S.I.	7 7/8 in. during shut-in. during shut-in. %-mud) Maximum to (C)	Tool Joint S	123° 71 P.S.I.
Recovered 831 ft. of gas Recovered 1,515 ft. of clea Recovered 363 ft. of slight Recovered 1,878 ft. of TOT Recovered ft. of Recovered ft. of Diesel in bucket. Total Sample Grind Diesel in bucket. Sime Set Packer(s) 9:00 Ft. of Diesel in bucket. Sitial Hydrostatic Pressure Sitial Flow Period	increasing. Off bott in pipe an oil = 21.558450 b htty mud cut gassy of FAL FLUID = 25.569 d Out: 100%-oil P.M. TimMinutesMinutesMinutes	bls. (Grind o bil = 4.011050 500 bbls. e Started o 30 30 30	ut: 100%-oil) bbls. (Grind off Bottom(A)(B)(D)	Main Hole Size ottom of bucket blow back of bottom of bucket blow back Gravity: 26 @ 60° d out: 35%-gas; 50%-oil; 15 11:30 P.M. 2096 P.S.I. 86 P.S.I. 1256 P.S.I.	7 7/8 in. during shut-in. during shut-in. s%-mud) Maximum to (C)	Tool Joint S	Size 4 1/2-XH _i

Diamond Testing

General information Report

General Information

Company Name Nor-West KS Oil LLC

Contact Pat Wanker Well Name Nightengal #1 Job Number S0276 Unique Well ID DST #3 Marmaton 4387-4484' Representative Jacob McCalile Surface Location SEC 22-17S-34W Scott County Well Operator Nor-West KS Oil LLC Well License Number Report Date 2013/02/03 Field Wildcat Prepared By Jacob McCalile Well Type Vertical

Test Type Drill Stem Test
Formation DST #3 Marmaton 4387-4484'
Well Fluid Type 01 Oil

Vell Fluid Type 01 Oil Start Test Time 18:56:00 Final Test Time 03:12:00

 Start Test Date
 2013/02/03

 Final Test Date
 2013/02/04

Gauge Name 8471 Gauge Serial Number

Test Results

RECOVERED:

831' GIP 1515' CO 100% O GRAVITY: 26 @ 60 degrees F 363' SLMCGO 35% G 50% O 15% M 1878' TOTAL FLUID