KOLAR Document ID: 1753718

Confident	tiality R	equested:
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:	
Address 2:	Feet from Dorth / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
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:
	Producing Formation:
	Elevation: Ground: Kelly Bushing:
	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?
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to EOR Conv. to SWD	Drilling Fluid Management Plan
Plug Back Liner Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	
GSW Permit #:	Operator Name:
	Lease Name: License #:
	Quarter Sec Twp S. R East West

County:

Spud Date or **Recompletion Date** Date Reached TD

Completion Date or **Recompletion Date**

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

_ 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

KOLAR Document ID: 1753718

Operator Name:	Lease Name: Well #:
Sec TwpS. R East 🗌 West	County:

Page Two

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken	acate)	Y	′es 🗌 No	[og Formatio	n (Top), Depth a	and Datum	Sample
Samples Sent to Geolo	aical Survey		les No	1	Name	Э		Тор	Datum
Cores Taken Electric Log Run Geologist Report / Mud List All E. Logs Run:	Logs	□ Y □ Y □ Y	és ☐ No és ☐ No és ☐ No						
		Rep	CASING ort all strings set-c	RECORD] Ne	w Used	on, etc.		
Purpose of String	Size Hole Drilled	Siz	ze Casing et (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
[1		ADDITIONAL	CEMENTING /	SQU	EEZE RECORD			
Purpose:	Depth Top Bottom	Туре	e of Cement	# Sacks Use	d		Type and	Percent Additives	
Protect Casing Plug Back TD Plug Off Zone									
 Did you perform a hydra Does the volume of the Was the hydraulic fractu 	aulic fracturing treatme total base fluid of the uring treatment informa	ent on this v hydraulic fr ation submi	vell? acturing treatment tted to the chemic	exceed 350,000 al disclosure regi	gallo stry?	Nes Yes	 No (If No, s No (If No, s No (If No, f 	kip questions 2 ar kip question 3) ill out Page Three	nd 3) of the ACO-1)
Date of first Production/Inj Injection:	jection or Resumed Pr	oduction/	Producing Meth	iod:		Gas Lift 🗌 O	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er Bb	ls.	Gas-Oil Ratio	Gravity
DISPOSITION	N OF GAS:		N		MPLE	TION:		PRODUCTIO	ON INTERVAL:
Vented Sold (If vented, Subn	Used on Lease		Open Hole	_ Perf C <i>(S</i>	ually ubmit	Comp. Com ACO-5) (Subn	nit ACO-4)		
Shots Per Per Foot	foration Perfor Top Botte	ation om	Bridge Plug Type	Bridge Plug Set At		Acid,	Fracture, Shot, C (Amount and Ki	ementing Squeezend of Material Used)	Record
TUBING RECORD:	Size:	Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	FourWinds Oil Corporation
Well Name	GLENNEMEIER A 4
Doc ID	1753718

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	8.25	23	221	80/20 Poz	180	2%Gel
Production	7.875	5.5	15.5	3675	QMDC/co m	600	10%salt,5 gil

Phone 785-483-1071 Cell 785-324-1041	Home Office P.C	D. Box 32 R	ussell, KS 67665	No.	3599
Sec.	Twp. Range	County	State	On Location	Finish
Date 9/26/23 21	5 21 1	Varton	hansas		8:30pr
	La	ocation Hwy	24018 14 EI	13N/2W3	N wint
Lease Glennemeier A	Well No. 4	Owner			
Contractor Discovery Prillie	g Rig 4	To Quality You are he	Oilwell Cementing, Inc.	cementing equipmen	t and furnish
Type Job Surface		cementer a	and helper to assist own	er or contractor to d	o work as listed
Hole Size 12/4 T	.D. 222	Charge To	Four Winds	a disar	
Csg. 5/5/5/ [Depth 221-8	Street			
Tbg. Size	Depth	City		State	
Tool	epth	The above v	vas done to satisfaction an	d supervision of owner	agent or contrac
Cement Left in Csg. 20' S	hoe Joint 20'	Cement An	nount Ordered	\$20 3% CC	2%cel
Meas Line D	Displace 12-75				
EQUIPME	NT	Common	52		
Pumptrk 16 No. Cementer Tim		Poz. Mix	18		
Bulktrk 20 No. Driver Nice	K	Gel. 3			a defense a la composición de
Bulktrk P.U. No. Driver Deu	'd	Calcium 7			
JOB SERVICES &	REMARKS	Hulls			
Remarks:		Salt		110	
Rat Hole		Flowseal			
Mouse Hole		Kol-Seal			
Centralizers		Mud CLR 4	8	1	
Baskets		CFL-117 or	CD110 CAF 38		
D/V or Port Collar	Hax.	Sand			
Ray 8% and e	st circulation	Handling	200	The second s	
cemented with 1	Posks	Mileage	la dissil	State High Children	
and displace	Locati Locati Locati Locati Locati Locati Locati Locati Mell No. 4 actor Discourcy frilling Rig 4 Job Surface Size Depth Depth 221-8 Size Depth Depth Depth Depth Depth Correction 20' Line Displace 12-75 EQUIPMENT K 20 No. Driver Arick K DU. No. Cermenter Tim K 20 No. Driver Arick K DU. No. Driver Arick K DU. No. Driver Deurid JOB SERVICES & REMARKS rks: ole e Hole alizers ths r Port Collar Carculare Correctaria Correctari		FLOAT EQUIPME	NT	
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		Centralizer			
		Baskets			
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Lad Las		Float Shoe			
Cement Did	Circulate	Latch Down	27 28 12 48 38 1	NAME OF THE	
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Second .	and the second	Pumptrk Ch	large Surfac	e	
		Mileage	2	regital	
		P	1 1	Tax	
0		1	TINKS	Discount	
Signature Mar A roch			Viu	Total Charge	

Phone 785-483-1071 Cell 785-324-1041	н	ome Office	e P.O. B	ox 32 Ru	issell, KS 67665	No.	3787
Sec	Twp.	Range	0	County	State	On Location	Finish
Date 101-23 21	2	2/	NOR	Tow	KS		6:4SP
			Locatio	on Bagu	elsn Itw:	2N	
Lease GleNNemeir	A	Well No.	4	Owner			
Contractor Discovery			/	To Quality (Dilwell Cementing, Inc.		
Type Job Long String				cementer ar	nd helper to assist owr	cementing equipmen ler or contractor to do	t and furnish work as listed.
Hole Size 7	T.D.			Charge L	-OUR INTER OC		
Csg. Sz Isza	Depth			Street	our winds		
Гbg. Size	Depth			City			
ΓοοΙ	Depth			The above we	an dana ta patiala di	State	
Cement Left in Csa. 30 6/	Shoe la	int 20 6	1	Cement Am	as done to satisfaction an	d supervision of owner	agent or contractor.
Veas Line	Displace	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			Control ordered 450	4 QMDC4F/	500,90 1-1
EQUIF	MENT	86-9		13024	(on 1090 Jala	A STGI	
Pumptrk 17 No. Cementer		Bitt		Common /	SO SOL A		- 90 F
No. Driver		DAVID		Poz. Mix	50 /20 QMI		
No. Driver		TIM		Gel.			
	& DEMAR	Dog		Calcium			
lemarke:	O A REMAR	ins		Hulls			
Pot Hole 20				Salt /3	H		
Acuse Hele 30			1	Flowseal	20#		
iouse Hole				Kol-Seal	50#		
entralizers			1	Mud CLR 48	500 gal		
askets			(CFL-117 or C	CD110 CAF 38		The Comments
/V or Port Collar	1.000		5	Sand	States -		
geset e 3673	200 4.4	n the state	H	Handling 6	24		
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maine S		100 C		111		Total Charge	



Scale 1:240 Imperial

	Scale 1:240 Imperial		
Well Name: Surface Location: Bottom Location:	GLENNEMEIER A #4 N2, S2, SE,SE, Sec. 21, T5S, R21V	V	
API: License Number: Spud Date: Begion:	15-137-20768 34916 9/26/2023 NOBTON COUNTY	Time:	4:00 PM
Drilling Completed: Surface Coordinates: Bottom Hole Coordinates:	9/30/2023 350' FSL & 660' FEL	Time:	4:30 AM
Ground Elevation: K.B. Elevation: Logged Interval: Total Depth: Formation: Drilling Fluid Type:	2232.00ft 2240.00ft 3100.00ft 3675.00ft REAGAN SAND CHEMICAL MUD	To:	3675.00ft
Company: Address:	OPERATOR FOURWINDS OIL CORPORATION P.O. BOX 1063 HAYS, KS 67601		
Contact Geologist: Contact Phone Nbr: Well Name: Location: API:	DAN WINDHOLZ 785-259-8403 GLENNEMEIER A #4 N2, S2, SE,SE, Sec. 21, T5S, R21V 15-137-20768	V	
Pool: State:	KS	Field: Country:	WEST UNION
	SURFACE CO-ORDINATES		
Well Type: Longitude: Latitude: N/S Co-ord: E/W Co-ord:	Vertical -99.686109 39.597106 350' FSL 660' FEL		
	LOGGED BY		
Company: Address:	KEYSTONE CONSULTING, LLC 2511 E 19TH HAYS, KS 67601		
Phone Nbr: Logged By:	(785) 639-0721 Geologist	Name:	CAMERON BRIN
Contractor: Rig #:	CONTRACTOR DISCOVERY DRILLING 4		
Rig Type: Spud Date: TD Date: Big Belease:	MUD ROTARY 9/26/2023 9/30/2023	Time: Time:	4:00 PM 4:30 AM
	10/1/2023	Time:	7:45 PM

ELEVATIONS

K.B. Elevation:	2240.00ft
K.B. to Ground:	8.00ft

Ground Elevation: 2232.00ft

NOTES

DUE TO POSTIVE RESULTS ON DST #1, DECISION WAS MADE TO RUN 5 1/2" PRODUCTION CASING TO FURTHER EVALUATE THE GLENNEMEIER A #4

						TOPS	CO	MP	AR	ISO	N											
						٠							•					•				
						GLENNEM	EIER A	#3				GLENNE	MEIE	R A #1	8			GLENNEME	IER B	#1		
						BLACK DIAN	IOND	OIL			с И	BLACK DI	AMO	ND OI	L			FOURWIN	IDS O	IL		
		GLENNEN	IEIER A #4		NE, I	WW, SE, SE, Se	c. 21,	T5S, R	21W		W2, 9	SE, SW, SE,	Sec 2	1, T5S	, R21	W	W2, E2	2, NW, NE, Se	c 28,	T5S, R	21W	
	KB	2240	GL	2232	KB		221	16			KB		2	266			KB		22	84		
	LOG	TOPS	SAMPL	E TOPS	L	OG	LC	DG	SN	IPL.	L	DG	LC	DG	SN	IPL.	LO	GS	LC)G	SM	PL.
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CO	RR.	CO	RR.	DEPTH	DATUM	co	RR.	CO	RR.	DEPTH	DATUM	CO	RR.	CO	RR.
ANHYDRITE TOP	1839	401	1836	404	1814	402	-	1	+	2	1863	403	-	2	+	1	1886	398	+	3	+	6
BASE	1868	372	1866	374	1843	373	-	1	+	1	1892	374		2	+	0	1912	372	+	0	+	2
ТОРЕКА	3186	-946	3187	-947	3165	-949	+	3	+	2	3213	-947	+	1	+	0	3230	-946	+	0	-	1
HEEBNER SHALE	3389	-1149	3387	-1147	3368	-1152	+	3	+	5	3415	-1149	+	0	+	2	3432	-1148	1999	1	+	1
TORONTO	3415	-1175	3415	-1175	3394	-1178	+	3	+	3	3441	-1175	+	0	+	0	3462	-1178	+	3	+	3
LKC	3434	-1194	3431	-1191	3413	-1197	+	3	+	6	3461	-1195	+	1	+	4	3478	-1194	+	0	+	3
ВКС	3621	-1381	3619	-1379	3601	-1385	+	4	+	6	3646	-1380	120	1	+	1	3665	-1381	+	0	+	2
GORHAM							~															
REAGAN			3673	-1433	3653	-1437	1		+	4	3699	-1433			+	0	3714	-1430			-	3
TOTAL DEPTH	3676	-1436	3675	-1435	3655	-1439	+	3	+	4	3700	-1434	1996	2	1940	1	3716	-1432	1000	4	-	3



ACT TON	ODITE	DRILL STEM	TEST REPO	DRT			
	UDITE	Fourwinds Oil Corp		21-55-21	W Norton,	KS	
	STING , INC	PO Box 1063		Glennen	neier A #4		
「御日」		Hays, KS 67601		Job Ticket:	71196	DST#: 1	1
134		ATTN: Cameron Brin		Test Start:	2023.09.30 (16:35:00	
GENERAL INFORM	MATION:						
Formation: Rea Deviated: No Time Tool Opened: 18:: Time Test Ended: 23:	igon Sand Whipstock: 39:15 11:15	ft (KB)		Test Type: Tester: Unit No:	Convention Dustin Day 70	al Bottom Hol	le (Initial)
Interval: 3616.0	0 ft (KB) To 36	75.00 ft (KB) (TVD)		Reference	Elevations:	2240.00	ft (KB)
Total Depth: 36	75.00 ft (KB) (TV	D)				2232.00	ft (CF)
Hole Diameter:	7.88 inches Hole	Condition:		к	B to GR/CF:	8.00	ft
Serial #: 6625	Inside			1745) IV			
Press@RunDepth: Start Date:	118.68 psig (2 3617.00 ft (KB)	2022.00.20	Capacity:		8000.00	psig
Start Time:	16:35:00	End Time:	23:11:15	Time On Btm Time Off Btm	2023.09.30 2023.09.30	@ 18:38:45 @ 20:55:00	
TEST COMMENT:	IF-30- BOB in 28 i SI1-30- WSB FF-30- BOB in 26	min, built to 13" .5 min, built to 13.25"					







3610 3620 3630 3640	0	Lm- crm, fnxln, oolitic, scat pr ppt-inoolitic & tr fr vuggy por, brn spotty- sub sat stn, SFO upon crush, faint odor BKC: SPL 3619' (-1379) LOG 3621' (-1381) Sh- red, sandy Sh- A/A	DST #1 3616'-3675' (REAGAN) MISRUN TOOL FAILED TO OPEN <u>DST #1A</u> 3614'-3675' (REAGAN) 30-30-30-45 60' GO (90% O) 94' GMCO (75% O) 66' GOCM (30% O) SIP: 967-969#
3660 3670 3680	•	Lm- crm, v.fn-fnxln, ooltiic in prt,few scat pcs w/ pr ppt-inoolitic & tr fr vuggy por, 3-4 pcs w/ brn spotty-sub sat stn, v. sli SFO upon crush, no odor Sh- gray-brn Lm- crm, fnxln-corgrn, sandy REAGAN SAND: SPL 3673' (-1433) Ss- qtz, clear, md-corgrn, mix of consolidated & unconsolidated, mod sorting, fairly pr rounding, fr-gd ingrn por, gd brn sat stn, gd SFO, gd odor	CFS @ 3670' CFS @ 3673' CFS @ 3675' SURVEY @ 3675' (1/2°)
3690		<u>RTD: SPL 3675' (-1435) LOG 3676' (-1436)</u>	GEO OFF LOCATION @ 7:45 AM 10/1/21