KOLAR Document ID: 1513730

Confiden	tiality Requeste	ed:
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 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: ()				
CONTRACTOR: License #	GPS Location: Lat:, Long:			
Name:	(e.g. xx.xxxx) (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:			
Dual Completion Permit #:				
	Location of fluid disposal if hauled offsite:			
	Operator Name:			
	Lease Name: License #:			
Sourd Date or Date Beached 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: 1513730

Operator Nam	ne:			Lease Name:	Well #:
Sec	Twp	S. 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).

rill Stem Tests Taken Yes No		[Log Formation (Top), Depth and Datum Samp			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 Used		Type and Percent Additives			
Protect Casing Plug Back TD Plug Off Zone									
 Did you perform a hydraulic fracturing treatment on this well? Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? 				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:		METHOD OF		COMPLETION:			PRODUCTION INTERVAL:	
Vented Sold (If vented, Subn	Used on Lease		Open Hole Perf.		U Dually Comp. Commingled (Submit ACO-5) (Submit ACO-4)				
Shots Per Perforation Perforation Bridge Plug Bridge Plug		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	Vincent Oil Corporation
Well Name	FAIRCHILD 1-22
Doc ID	1513730

All Electric Logs Run

Dual Induction
Density - Neutron
Micro-log
Sonic

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	FAIRCHILD 1-22
Doc ID	1513730

Tops

Name	Тор	Datum
Chase	1410	(+201)
Onaga Shale	2200	(-589)
Wabaunsee	2242	(-631)
Topeka	2770	(-1159)
Heebner Shale	3152	(-1541)
Brown Limestone	3361	(-1750)
Lansing	3374	(-1763)
Stark Shale	3715	(-2104)
Hushpuckney Shale	3756	(-2145)
Cherokee Shale	3955	(-2354)
Mississippian	4042	(-2431)
Mississippian Limestone	4134	(-2523)
Kinderhook Shale	4235	(-2624)
Viola	4394	(-2783)
Simpson Sand	4438	(-2827)
RTD	4500	(-2889)

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	FAIRCHILD 1-22
Doc ID	1513730

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	309	60/40 POZ	275	2% Gel, 3% CC & 1/4# Cel- flake /sx
Production	7.875	4.5	11.6	4495	Pro-C	200	2% Gel, 10 % Salt & 5# Kolseal/sx

QUALITY WELL SERVICE, INC.

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410 Fax 620-672-3663

Rich's Cell 620-727-3409 Brady's Cell 620-727-6964

S	Sec. Twp.	Range	0	County	State	On Location	Finish					
Date 2-30-19	22 235	SW	K	Samar	KL							
Lease Faiechild	Well No.	1-22	Locatio	on Kingm	with Won	54 to B.	JE DELL RU					
Contractor Doke D	JelG RiG	¥ [Owner 3	SIZE	Sinto	92 					
Type Job Surface				To Quality We You are here	ell Service, Inc.	cementing equipmen	t and furnish					
Hole Size 1,214	T.D.	310		cementer an	d helper to assist own	ner or contractor to d	o work as listed.					
Csg. 85/8 23	Depth	309		To Vi	ncent oil (07p						
Tbg. Size	Depth			Street								
Tool	Depth			City State								
Cement Left in Csg.	Shoe Jo	oint 25		The above wa	s done to satisfaction ar	d supervision of owner	agent or contractor					
Meas Line	Displace	= 18. Ic	3	Cement Amo	ount Ordered 275	51 60/90						
E	EQUIPMENT			21 GEL	3766 1/2 1	05						
Pumptrk 8 No.				Common /	65 54							
Bulktrk [\ No.				Poz. Mix //	0 51							
Bulktrk No.		Y		Gel. 47	3#		A					
Pickup No.				Calcium 7	10 #							
JOB SERVICES & REMARKS				Hulls								
Rat Hole				Salt								
Mouse Hole				Flowseal	3.75							
Centralizers				Kol-Seal								
Baskets				Mud CLR 48								
D/V or Port Collar				CFL-117 or (CD110 CAF 38							
Run 7 +15 85/3.	234CS6 5	SET) 30	9'	Sand								
STALT USG USG ON	U Bottom			Handling 239								
Hookinto CS6#	BREAK CIR	c while.		Mileage 3	513500	DK: VEGE	e					
STAT PSmoing 1	O Bbli 1	20		85/3 FLOAT EQUIPMENT								
STAR M WX & Pamp	275 54	60,40		Guide Shoe								
2" [GEL 31]. (L 1/4 "1	PS 2 14.7	4/GAL		Centralizer								
SHUT DOWN RE	LEASE 351-	3 WPUG		Baskets								
START DiSD				AFU Inserts								
P/6 0000 150'	18.181	Bbly		Float Shoe	e							
Close VALUE ON (.46			Laten=Down	WardEN Plul	I EA						
Gon Circ that	103			SEWICE	Sou IFA							
GR CMT TO	P. t			LMV 3D								
				Pumptrk Char	rge SURFACE	2						
Thall	100			Mileage	3							
PLEASE (A	1				Tax							
TON TE					Discount							
X Signature Mill	her					Total Charge						
	100						Taylor Printing, Inc.					

QUALITY WELL SERVICE, INC. Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410 Fax 620-672-3663

Rich's Cell 620-727-3409 Brady's Cell 620-727-6964 7319

Sec.	Twp.	Range	,(County	State	On Location	Finish				
Date 1 20 22	285	80	K.	NGMAN	Ks						
Lease Faiechild	Well No.	1-22	Locatio	on Kindema	ANKS. Won	HWY 54 +	O BUEDEILA				
Contractor DUKE Del	g Ric	<u>z</u> +1		Owner 3	SZILE SI	nto					
Type Job LONGSTRING				You are here	by requested to rent	cementing equipmer	t and furnish				
Hole Size 778	T.D.	1500'		cementer an	d helper to assist own	ner or contractor to d	o work as listed.				
Csg. 4h	Depth	4445	<u> </u>	To V	NCENT OIL	(ozp.					
Tbg. Size	Depth			Street							
Tool	Depth			City		State					
Cement Left in Csg.	Shoe Jo	oint 445		The above wa	s done to satisfaction ar	nd supervision of owner	agent or contractor.				
Meas Line	Displac	e 68.99		Cement Amo	ount Ordered 250	54 PROC 2%	FEL				
EQUIP	MENT			10% SALL 5	"Br Kolstink . 6)	1.C16A .251. (4	IP 1/9° PS				
Pumptrk S No.				Common	<u>so se</u>						
Bulktrk / No.				Poz. Mix							
Bulktrk				Gel. 4 /()*						
Pickup				Calcium							
JOB SERVICES	5 & REMA	RKS	_	Hulls							
Rat Hole 200			_	Salt 131	7-14		······································				
Mouse Hole 20 Sc				Flowseal (2	2.2. #						
Centralizers 7-9-11-13-	12.11			Kol-Seal	CSO Cal						
Baskets			_	Mud CLR 48	SOU LAL	a 127 #					
D/V or Port Collar	14 00	(1-)		CFL-117 or C	DITO CAF 38 C IV						
Kun 102 343 41/2 11	6 0	6 SELO		Sand 5 3.75 C41F							
START CSG CS4 ON Botto	milt	ta		Handling 30 /							
HOOK P to CSG " BUCH	- CI26	With		Ivineage St	FLOAT FOLIPMI						
DROP BALL & CIEL OF RI	G D DI D	ar maint	27	412 FLOAT EQUIPMENT							
STHAT TOMPING TOUSIETTS	12139151	<u>ne to boe n</u>		Contralizer	1 40 1 E FA						
SHOLT FROM KIM HOLES	509	Wall VICE	6	Baskets							
STATE MAZ 2009 PROL	x16 70	port in al	y ald	AFILIncorte	1 P.A.						
511,21 DOWD RELEASE	+121 %	MOD WHAT	44	Float Shoe	DON NOFI PI	OC 1 EVA					
SIALI DISP WI CT. ICCC	DOP			Latch-Down	HEDD MALLE	I I FIA					
De mulla t	11201	μ	-	SEANT	Sal 1	FA					
Pline 11:00th	100	_		INI/ 3	- sp						
Delehor EllEra 1	2 04	Park		Pumptrk Cha	rae LONGSTP	N/6					
GUID Cill that	102	MACL		Mileage)						
TILL Y AUN	202	-1600				Tax					
PLEQUE COLLEGA	And	TIN	W.			Discount					
X Signature	Set	124	Nilko			Total Charge					
	VEV						Taylor Printing, Inc.				

	DRILL STEM TEST REPORT						
I RILUDITE	Vincent Oil Corporation		22-28s-	8w Kingr	nan, Co. Ks.		
ESTING , INC.	200 W. Douglas Ave *725		Fairch	ld 1-22			
	Wichita, Ks. 67202		Job Ticke	et: 65463	DST#:1		
	ATTN: Tom Dudgeon		Test Sta	t: 2020.01.	.01 @ 00:35:42		
GENERAL INFORMATION:							
Formation:ChaseDeviated:NoWhipstock:Time Tool Opened:03:51:57Time Test Ended:08:13:27	ft (KB)		ntional Bottom Hole (Initial) nith				
Interval:1375.00 ft (KB) To14Total Depth:1475.00 ft (KB) (The second secon	9 50.00 ft (KB) (TVD) /D) e Condition: Fair	Reference Elevations: 1623.00 ft (KB) 1611.00 ft (CF) KB to GR/CF: 12.00 ft					
Serial #:8931InsidePress@RunDepth:18.18 psigStart Date:2020.01.01Start Time:00:35:47TEST COMMENT:IF: Weak - Fair B ISI: No Blow .	@ 1376.00 ft (KB) End Date: End Time: low . Built to 6".	2020.01.01 08:13:26	Capacity: Last Calib.: Time On Btm: Time Off Btm:	2020.0 2020.0	8000.00 psig 2020.01.01 1.01 @ 03:38:27 1.01 @ 06:49:27		
FF: Weak Blow . FSI: No Blow . Pressure vs. 1 831 Pressure	Sime	Timo	PRES	SURE SU	JMMARY		
1 Wed Jan 2020	681 Tenporate 70 70 70 70 70 70 70 70 70 70	Time (Min.) 0 14 40 93 94 122 189 191	Pressure (psig) Te (de 677.58 677.58 7 14.91 7 22.46 7 65.26 7 14.53 7 18.18 7 633.38 7	mp Anr g F) 5.81 Initial 5.94 Open 6.50 Shut- 7.16 End S 7.14 Open 7.41 Shut- 7.85 End S 7.90 Final	hotation Hydro-static To Flow (1) Shut-In(1) To Flow (2) In(2) Shut-In(2) Hydro-static		
Length (ft) Description	Volume (bbl)			Gas Rat	es Pressure (psig) Gas Rate (Mcf/d)		
6.00 DRG Mud 100%m	0.05						

	DRILL STEM TES	DRILL STEM TEST REPORT						
I RILUDITE	Vincent Oil Corporation		22-28s-8w	v Kingman, Co. Ks.				
ESTING , INC.	200 W. Douglas Ave *725		Fairchild	1-22				
	Wichita, Ks. 67202		Job Ticket: (65463 DST#: 1				
	ATTN: Tom Dudgeon		Test Start: 2	2020.01.01 @ 00:35:42				
GENERAL INFORMATION:								
Formation:ChaseDeviated:NoWhipstock:Time Tool Opened:03:51:57Time Test Ended:08:13:27	ft (KB)		Test Type: Tester: Unit No:	Conventional Bottom Hole (Initial) Matt Smith 68				
Interval:1375.00 ft (KB) To14Total Depth:1475.00 ft (KB) (ThHole Diameter:7.88 inches Hole	450.00 ft (KB) (TVD) /D) e Condition: Fair		Reference E KE	Elevations: 1623.00 ft (KB) 1611.00 ft (CF) 8 to GR/CF: 12.00 ft				
Serial #: 8788OutsidePress@RunDepth:psigStart Date:2020.01.01Start Time:00:35:25TEST COMMENT:IF: Weak - Fair B ISI: No Blow . FSI: No Blow . FSI: No Blow .	 @ 1376.00 ft (KB) End Date: End Time: low . Built to 6". Built to 5". 	2020.01.01 08:13:19	Capacity: Last Calib.: Time On Btm: Time Off Btm:	8000.00 psig 2020.01.01				
Pressure vs. 7	ĩme		PRESSU	IRE SUMMARY				
To 500 Pressure To 500	A Comparison of the second sec	Time (Min.)	Pressure Temp (psig) (deg F	Annotation)				
Recovery			G	as Rates				
Length (ft) Description	Volume (bbl)		Choke	e (inches) Pressure (psig) Gas Rate (Mcf/d)				
6.00 DRG Mud 100%m	0.05							

	DRI	DRILL STEM TEST REPORT FLUID SUMMAR							
RILUDITE	Vincer	nt Oil Corporation	22-28s-8w K	(ingman, Co	. Ks.				
ESTING, INC	200 W	/. Douglas Ave *725	Fairchild 1-	22					
	Wichita	a, Ks. 67202	Job Ticket: 654	463	DST#: 1				
	ATTN:	Tom Dudgeon	Test Start: 202	20.01.01 @ 00:3	35:42				
Mud and Cushion Information	Į								
Mud Type:Gel ChemMud Weight:10.00 lb/galViscosity:31.00 sec/qtWater Loss:in³Resistivity:109000.00 ohm.mSalinity:ppmFilter Cake:0.20 inches		Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure:	O ft W bbl psig	ờil API: Vater Salinity:	deg API 109000 ppm				
Recovery Information									
	ath	Recovery Table)/olumo						
f	gth	Description	bbl						
	6.00	DRG Mud 100%m	0.046						
I otal Length:	6	6.00 ft Total Volume: 0.046 bbl	Carial #	Nama					
Laboratory Na	ipies:0 me:	Laboratory Location:	Serial #:	None					
Recovery Cor	ments:								

Printed: 2020.01.01 @ 09:54:14

35

45

40

50

Ref. No: 65463



55

Temperature (deg F)

60

65

70

75

Vincent Oil Corporation

Inside

Serial #: 8931

Fairchild 1-22

Pressure vs. Time

DST Test Number: 1

80

Printed: 2020.01.01 @ 09:54:15

Ref. No: 65463

Trilobite Testing, Inc





Fairchild 1-22

DST Test Number: 1

Serial #: 8788 Outside Vincent Oil Corporation

	DRILL STEM TES	T REP	ORT				
I AILUDITL	Vincent Oil Corporation		22-2	28s-8w k	Kingman,	Co. Ks.	
ESTING , INC	200 W. Douglas Ave *725		Fair	rchild 1	-22		
	Wichita, KS. 07202		Job ⁻	Ticket: 65	464	DST#:2	2
	ATTN: Tom Dudgeon		Test	Start: 20	20.01.02 @	16:29:19	
GENERAL INFORMATION:	ł						
Formation:StolterDeviated:NoWhipstock:Time Tool Opened:18:48:49Time Test Ended:01:38:19	ft (KB)		Test Teste Unit I	Type: C er: N No: 6	Conventiona <i>I</i> att Smith 88	l Bottom Hol	e (Reset)
Interval: 2333.00 ft (KB) To 2	475.00 ft (KB) (TVD)		Refe	rence Ele	vations:	1623.00	ft (KB)
Hole Diameter: 7.88 inches Ho	le Condition: Fair			KB to	GR/CF:	1611.00	ft
Serial #: 8931InsidePress@RunDepth:189.01 psigStart Date:2020.01.02Start Time:16:29:24TEST COMMENT:IF: Strong Blow	 @ 2334.00 ft (KB) End Date: End Time: . B.O.B. in 6 mins. Built to 62". 	2020.01.03 01:38:19	Capacity: Last Calib Time On E Time Off I	n.: Btm: 2 Btm: 2	2020.01.02 (8000.00 2020.01.03 @ 18:44:19 @ 23:08:04	psig
ISI: No Blow . FF: Strong Blov FF: No Blow .	v. B.O.B. in 3 mins. Built to 132".	Γ					
Pressure vs V #301 Pressure	Time 3331 Temperature		PR		E SUMM	ARY	
	5 5 50 50 50 50 50 50 50 50 50 50 50 50	(Min.) 0 5 49	(psig) 1114.99 29.82 128.60	(deg F) 87.70 86.78 88.79	Initial Hydro Open To Fl Shut-In(1)	o-static low (1)	
		109	915.89	90.50	End Shut-Ir	n(1)	
		169	143.91	90.34 92.66	Shut-In(2)	low (∠)	
		262 264	945.45 1081.41	94.00 94.04	End Shut-Ir Final Hydro	n(2) o-static	
6FM SFM 2 Thu Jan 2020 Time (Hou	3Fni						
Recovery			ļ ļ	Gas	s Rates		
Length (ft) Description	Volume (bbl)			Choke (ir	nches) Pressu	re (psig) Ga	is Rate (Mcf/d)
61.00 GMCW 20%g 30%m 50	%w 0.46	│└───		ļ`	·		. ,
61.00 GWCM 5%g 30%w 65%	6m 0.46						
60.00 GWCM 5%g 10%w 859	6m 0.46						
60.00 GWCM 1%g 5%w 94%	om 0.46	1					
211.00 GM 5%g 95%m	1.61						
* Recovery from multiple tests							

	DRILL STEM TES	T REPO	ORT			
	Vincent Oil Corporation		22-28s-8	w Kingı	man, Co. K	S.
ESTING , INC	200 W. Douglas Ave *725		Fairchil	d 1-22		
	vvicnita, KS. 67202		Job Ticket	65464	DST	#:2
	ATTN: Tom Dudgeon		Test Start	2020.01	.02 @ 16:29:1	9
GENERAL INFORMATION:	ł					
Formation:StolterDeviated:NoWhipstock:Time Tool Opened:18:48:49Time Test Ended:01:38:19	ft (KB)		Test Type Tester: Unit No:	Conve Matt Si 68	ntional Bottom mith	Hole (Reset)
Interval: 2333.00 ft (KB) To 2	475.00 ft (KB) (TVD)		Reference	e Elevation	ns: 1623	.00 ft (KB)
Total Depth: 2475.00 ft (KB) (1 Hole Diameter: 7.88 inches Ho	VD) e Condition: Fair			(B to GR/	1611. CE· 12	.00 ft (CF) 00 ft
Serial #: 8788 Outside	© 2224.00 th (I/D)		Conceitru		0000	00 main
Start Date: 2020.01.02	End Date:	2020.01.03	Last Calib.:		2020.01.	.00 psig .03
Start Time: 16:30:02	End Time:	01:38:57	Time On Btm:			
			Time Off Btm:			
TEST COMMENT: IF: Strong Blow ISI: No Blow . FF: Strong Blow FF: No Blow .	B.O.B. in 6 mins. Built to 62". . B.O.B. in 3 mins. Built to 132".					
Pressure vs.	Time		PRESS	URE SU	JMMARY	
578 Pressure 578 Pressure 57	573 Graponare 573 Graponare 9 9 9 9 9 9 9 9 9 9 9 9 9	Time (Min.)	Pressure Ten (psig) (deg	ip Anr F)	notation	
Recovery				Gas Rat	es	
Length (ft) Description	Volume (bbl)		Ch	oke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
61.00 GMCW 20%g 30%m 50	%w 0.46					
GWCM 5%g 30%w 65%	om 0.46					
60.00 GWCM1%g 5%w 04%	m 0.40					
211.00 GM 5%a 95%m	1.61					
* Recovery from multiple tests	······					

an-		DRI	LL STEM TEST REPORT	-	F	LUID SUMMARY
		Vincen	t Oil Corporation	22-28s-8w	Kingman, Co	o. Ks.
	ESTING , INC.	200 W.	Douglas Ave *725	Fairchild	1-22	
		Wichita	, Ks. 67202	Job Ticket: 6	5464	DST#:2
		ATTN:	Tom Dudgeon	Test Start: 2	020.01.02 @ 16::	29:19
Mud and C	ushion Information					
Mud Type: 0	Gel Chem		Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal		Cushion Length:	ft	Water Salinity:	60000 ppm
Viscosity:	31.00 sec/qt		Cushion Volume:	bbl		
Water Loss:	in³		Gas Cushion Type:			
Resistivity:	34000.00 ohm.m		Gas Cushion Pressure:	psig		
Salinity:	ppm 0.20 inches					
Recovery I	mormation		Recovery Table			
	Leng ft	th	Description	Volume bbl]	
		61.00	GMCW 20%g 30%m 50%w	0.465	5	
		61.00	GWCM 5%g 30%w 65%m	0.465	5	
		60.00	GWCM 5%g 10%w 85%m	0.457	<u>'</u>	
		60.00	GWCM1%g 5%w 94%m	0.457	<u>,</u>	
		211.00	GM 5%g 95%m	1.607	·]	
	Total Length:	453	00 ft Total Volume: 3.451 bbl			
	Num Fluid Samp	oles: 0	Num Gas Bombs: 0	Serial #:	none	
	Laboratory Nam	ne:	Laboratory Location:			
	Recovery Com	ments: RV	V .25 @ 37.5 Degrees = 60,000 Chlorides.			

Printed: 2020.01.03 @ 07:17:24

Ref. No: 65464





Printed: 2020.01.03 @ 07:17:24

Ref. No: 65464

Trilobite Testing, Inc



Outside Vincent Oil Corporation

Fairchild 1-22

DST Test Number: 2

		DRILL STEM TE	DRILL STEM TEST REPORT							
		Vincent Oil Corporation			22-	28s-8w I	King	man, Co. K	S.	
	ESTING , INC.	200 W. Douglas Ave *725 Wichita Ks 67202			Fa	irchild 1	-22			
		Wieflika, NS. 07202			Job	Ticket: 65	465	DST	#:3	
		ATTN: Tom Dudgeon			Tes	t Start: 20	20.01	.05 @ 00:08:0	6	
GENERAL I	NFORMATION:									
Formation: Deviated: Time Tool Open Time Test Ende	Hertha No Whipstock: ned: 03:34:21 ed: 10:42:06			Tes Tes Unit	t Type: (ter: N t No: 6	Conve Matt Si S8	ntional Bottom mith	Hole (Reset)		
Interval:	3748.00 ft (KB) To 37	772.00 ft (KB) (TVD)			Ref	erence Ele	vatior	is: 1623	.00 ft (KB)	
Total Depth: Hole Diameter:	3772.00 ft(KB)(1) 7.88 inchesHole	VD) e Condition [.] Fair				KB t	o GR/(1611. CF: 12	.00 ft (C⊢) 00 ft	
Serial #: 89	31 Inside	@ 3740.00 ft (I/D)			Conceitu			0000	00 main	
Start Date:	2020.01.05	End Date:		2020.01.05	Last Cali	b.:		2020.01	.00 psig .05	
Start Time:	00:08:11	End Time:		10:42:06	Time On	Btm: 2	2020.0	1.05 @ 03:29	:21	
					Time Off	Btm: 2	2020.0	1.05 @ 08:00	:36	
TEST COMM	TEST COMMENT: IF: Strong Blow . B.O.B. in 2 mins. Built to 191.80". ISI: Weak Blow . Built to 2.75". FF: Strong Blow . B.O.B. in 1 min. Built to 205.35". FSI: Weak Blow . Built to 3.14".									
	Pressure vs. 7	lime □			PI	RESSUR	E SI	JMMARY		
1770			1	Time (Min.) 5 50	Pressure (psig) 1782.07 38.76 107.51	Temp (deg F) 110.30 112.47 115.15	Ann Initial Oper Shut	Hydro-static To Flow (1) -In(1)		
			Temp	109	1123.41 68.48	116.63	End : Oper	To Flow (2)		
			erature	169	139.26	117.87	Shut-In(2)			
Image: Share 1 Image										
	Recovery					Gas	s Rat	es		
Length (ft)	Description	Volume (bbl)				Choke (ii	nches)	Pressure (psig)	Gas Rate (Mcf/d)	
60.00	GOWCM 25%g 40%o 30	0%w 5%m 0.46								
60.00	GCOWCM 30%g 52%o 1	10%w 8%m 0.46								
60.00	CO 100%o	0.46								
120.00	GOCM 35%g 18%o 47%	om 0.95								
33.00	GOCM 5%g 10%o 85%n	n 0.46								
* Recovery from mult	2871 G.I.P. 100%g	0.00								
,										

	DRILL STEM TES	T REPO	RT						
RILUDITE	Vincent Oil Corporation		22-28s-8w Ki	ngman, Co. Ks.					
ESTING , INC	200 W. Douglas Ave *725 Wichita Ks 67202		Fairchild 1-2	22					
	Wiofilia, 13. 07202		Job Ticket: 6546	65 DST#: 3					
	ATTN: Tom Dudgeon		Test Start: 2020	0.01.05 @ 00:08:06					
GENERAL INFORMATION:	•								
Formation:HerthaDeviated:NoWhipstock:Time Tool Opened:03:34:21Time Test Ended:10:42:06	ft (KB)		Test Type: Co Tester: Ma Unit No: 68	onventional Bottom Hole (Reset) att Smith					
Interval: 3748.00 ft (KB) To 3 Total Depth: 3772.00 ft (KB) (1 Hole Diameter: 7.88 inchesHo	772.00 ft (KB) (TVD) VD) e Condition: Fair		Reference ⊟eva KB to	ations: 1623.00 ft (KB) 1611.00 ft (CF) GR/CF: 12.00 ft					
Serial #: 8788 Outside Press@RunDepth: psig Start Date: 2020.01.05	@ 3749.00 ft (KB)	2020.01.05	Capacity:	8000.00 psig					
Start Time: 00:08:28	End Time:	10:42:23	Time On Btm: Time Off Btm:	2020.01.03					
TEST COMMENT: IF: Strong Blow . B.O.B. in 2 mins. Built to 191.80". ISI: Weak Blow . Built to 2.75". FF: Strong Blow . B.O.B. in 1 min. Built to 205.35". FSI: Weak Blow . Built to 3.14".									
Pressure vs.	Time		PRESSURE	SUMMARY					
578 Presure 1759	5785 Formensure 5785 F	Time (Min.)	Pressure Temp (psig) (deg F)	Annotation					
Recovery			Gas	Rates					
Length (ft) Description	Volume (bbl)		Choke (inch	hes) Pressure (psig) Gas Rate (Mcf/d)					
60.00 GOWCM 25%g 40%o 3	0%w 5%m 0.46								
GCOWCM 30%g 52%o	10%w 8%m 0.46								
120.00 GOCM 35% a 18% a 47%	6m 0.95								
33.00 GOCM 5% a 10% o 85%	n 0.46								
0.00 2871' G.I.P. 100%g	0.00								
* Recovery from multiple tests	· · · · · · · · · · · · · · · · · · ·								

10 m		DRI	LL STEM TEST REPORT	Г	FL	UID SUMMARY
		Vincen	t Oil Corporation	22-28s-8w	Kingman, Co.	Ks.
	ESTING , INC.	200 W.	Douglas Ave *725	Fairchild	1-22	
		Wichita	ı, Ks. 67202	Job Ticket: 6	5465 D	ST#: 3
		ATTN:	Tom Dudgeon	Test Start: 2	2020.01.05 @ 00:08	3:06
Mud and (Cushion Information					
Mud Type	Gel Chem		Cushion Type:		Oil A Pl [.]	deg API
Mud Weight:	9.00 lb/gal		Cushion Length:	ft	Water Salinity:	4000 ppm
Viscosity:	43.00 sec/qt		Cushion Volume:	bbl	······	
Water Loss:	in³		Gas Cushion Type:			
Resistivity:	4000.00 ohm.m		Gas Cushion Pressure:	psig		
Salinity:	ppm					
Filter Cake:	0.20 inches					
Recovery	Information					
			Recovery Table		7	
	Leng ft	th	Description	Volume bbl		
		60.00	GOWCM 25%g 40%o 30%w 5%m	0.457	7	
		60.00	GCOWCM 30%g 52%o 10%w 8%m	0.457	<u></u>	
		60.00	CO 100%o	0.457	7	
		120.00	GOCM 35%g 18%o 47%m	0.952	2	
		33.00	GOCM 5%g 10%o 85%m	0.463	3	
		0.00	2871 G.I.P. 100%g	0.000	<u>/</u>	
	Total Length:	333	.00 ft Total Volume: 2.786 bbl			
	Num Fluid Sam	oles: 0	Num Gas Bombs: 0	Serial #		
	Recovery Com	ments: 37	\emptyset 56 Degrees = 37 4 Gravity Corrected			
1						
1						
1						
1						

Printed: 2020.01.05 @ 21:59:34

Ref. No: 65465





DST Test Number: 3

Printed: 2020.01.05 @ 21:59:34

Ref. No: 65465

Trilobite Testing, Inc



Outside Vincent Oil Corporation

Fairchild 1-22

DST Test Number: 3

	DRILL STEM TE	ST	REP(ORT				
I RILUDITE	Vincent Oil Corporation			22-	28s-8w I	King	man, Co. K	S.
ESTING , II	200 W. Douglas Ave *725			Fai	irchild 1	-22		
	Wiofilia, RS. 07202			Job	Ticket: 65	465	DST	#:4
	ATTN: Tom Dudgeon			Tes	t Start: 20	20.01	.06 @ 08:29:17	7
GENERAL INFORMATION:								
Formation:MississippiDeviated:NoWhipstocTime Tool Opened:10:51:02Time Test Ended:17:28:17	Formation:MississippiDeviated:NoWhipstock:ft (KB)Time Tool Opened:10:51:02Time Test Ended:17:28:17						ntional Bottom mith	Hole (Reset)
Interval: 3982.00 ft (KB) To	4055.00 ft (KB) (TVD)			Ref	erence Ee	vatior	is: 1623.	00 ft (KB)
Hole Diameter: 7.88 inches	lole Condition: Fair				KB to	o GR/	CF: 12.	00 ft
Serial #: 8931 Inside Press@RunDepth: 376.20 ps Start Date: 2020.01.0 Start Time: 08:29:2 TEST COMMENT: IF: Strong Blo IF: Waak Pla	g @ 3983.00 ft (KB) 6 End Date: 2 End Time: w.B.O.B. in 30 secs. G.T.S. in 6 min	20 ns. (020.01.06 17:28:17 Gauged Gas	Capacity Last Cali Time On Time Off	: b.: Btm: 2 Btm: 2	2020.0 2020.0	8000. 2020.01. 11.06 @ 10:49: 11.06 @ 15:00:	00 psig 06 32 32
FF: Strong Bl FSI: No Blow	w. BUIL to 3.44 . w. B.O.B. immediaely. G.T.S. Gaug	ed G	Gas.	PI	RESSUR	E SI	JMMARY	
1501 Pressure		t	Time	Pressure	Temp	Anı	notation	
			(Min.)	(psig) 1932-46	(deg F) 111 59	Initial	Hydro-static	
			2	257.02	110.96	Oper	To Flow (1)	
1500	100		33	388.75	114.35	Shut	-ln(1)	
		Temp	95 99	394.13	119.32	Ena : Oper	5nut-in(1) 1 To Flow (2)	
		enture	152	376.20	112.98	Shut	-ln(2)	
500		(deg F)	248 251	1208.66 1872.47	120.05 117.47	End \$ Final	Shut-In(2) Hydro-static	
Recove	У				Gas	s Rat	es	
Length (ft) Description	Volume (bbl)		First C	Dete	Choke (ir	nches)	Pressure (psig)	Gas Rate (Mcf/d)
64.00 GOspecM 15%g 85%	m 0.90		First Gas	s Rate		0.50	157.04	1156.48
GOSpecial 10%g (0%			Last Gas	s Rate		0.03	017 Q1	1566 / 2
31.00 DM 1005m	0.00		IVIAX. Ga	S Nale			217.01	1000.42
	0.40							
* Recovery from multiple tests								

	DRILL STEM TEST REPORT						
	Vincent Oil Corporation 22-2			8s-8w Kingman, Co. Ks.			
ESTING , INC	200 W. Douglas Ave *725		Fai	Fairchild 1-22			
	Wichita, KS. 67202		Job	Ticket: 65465	DST	#:4	
	ATTN: Tom Dudgeon		Test	Start: 2020.01	.06 @ 08:29:1	7	
GENERAL INFORMATION:	ł						
Formation:MississippiDeviated:NoWhipstock:Time Tool Opened:10:51:02Time Test Ended:17:28:17	ft (KB)		Test Test Unit	Type: Conve er: Matt S No: 68	ntional Bottom mith	Hole (Reset)	
Interval: 3982.00 ft (KB) To	055.00 ft (KB) (TVD)		Refe	erence Elevation	ns: 1623.	00 ft (KB)	
Total Depth: 4055.00 ft (KB) (TVD)					1611.	00 ft (CF)	
Hole Diameter: 7.88 inches Ho	le Condition: Fair			KB to GR/	CF: 12.	00 ft	
Serial #: 8788 Outside							
Press@RunDepth: psig	@ 3983.00 ft (KB)		Capacity:		8000.	00 psig	
Start Date: 2020.01.06	End Date:	2020.01.06	Last Calib).: Otmo:	2020.01.	06	
Start Time. 00.20.24		17.27.19	Time Off	Btm:			
ISI: Weak Blow . Built to 3.44". FF: Strong Blow . B.O.B. immediaely. G.T.S. Gauged Gas. FSI: No Blow .							
Pressure vs.	Time		PF	RESSURE S	JMMARY		
3783 Pressure 2000 - 4.4 4.		Time	Pressure	Temp An	notation		
		(IVIIN.)	(psig)	(deg F)			
700							
_ / <u>***</u> *****							
9444 12744 6 Man Jan 2020 Time (Haun	38FMA)						
Recovery			<u> </u>	Gas Ra	tes		
Length (ft) Description	Volume (bbl)			Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)	
64.00 GOspecM 15%g 85%m	0.90	First Ga	s Rate	0.50	157.04	1156.48	
63.00 GOspecM 10%g (0%m	0.88	Last Ga	s Rate	0.63	129.94	1544.55	
63.00 GOspecM 5%g 95%m	03.00 GOSpectM 10%g (0%m 0.88 63.00 GOSpectM 5%g 95%m 0.88		as Rate	0.50	217.81	1566.42	
	0.00						
31.00 DM 1005m	0.43	· · · · · · · · · · · · · · · · · · ·				••	
31.00 DM 1005m	0.43					••	
31.00 DM 1005m	0.43					•	

(Ch)		DRILL STEM TEST REPORT FLUID SUMMARY				
		Vincent Oil Corporation		22-28s-8w Kingman, Co. Ks.		
	ESTING, INC.	200 W.	Douglas Ave *725	Fairchild 1-22		
		VVICNIta	I, KS. 67202	Job Ticket: 6	5465	DST#:4
		ATTN:	Tom Dudgeon	Test Start: 2	020.01.06 @ 08::	29:17
Mud and	Cushion Information					
Mud Type: Mud Weight: Viscosity: Water Loss: Resistivity: Salinity: Filter Cake:	Gel Chem 10.00 lb/gal 31.00 sec/qt in ³ 109000.00 ohm.m ppm 0.20 inches		Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure:	ft bbl psig	Oil API: Water Salinity:	deg API 3000 ppm
Recovery	Information		December Table			
		th	Recovery Table	Volume	1	
	ft			bbl	4	
		64.00 63.00	GOspecM 15%g 85%m GOspecM 10%g (0%m	0.898	<u>.</u>	
		63.00	GOspecM 5%g 95%m	0.884	-	
		31.00	DM 1005m	0.435		
	Total Length:	221	.00 ft Total Volume: 3.101 bbl			
	Num Fluid Samp	les: 1	Num Gas Bombs: 1	Serial #:	P5 Pratt	
	Recovery Com	nents:	Laboratory Location:			
	,					



DRILL STEM TEST REPORT

GAS RATES

Vincent Oil Corporation

200 W. Douglas Ave *725 Wichita, Ks. 67202

ATTN: Tom Dudgeon

59 (deg F)

22-28s-8w Kingman, Co. Ks.

Fairchild 1-22

Job Ticket:	65465	DST#:4
Test Start:	2020.01.06 @	08:29:17

Gas Rates Information

Temperature:	59
Relative Density:	0.65
Z Factor:	0.8

- -

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	0.50	157.04	1156.48
1	20	0.50	184.97	1344.89
1	30	0.50	186.85	1357.57
2	10	0.50	193.31	1401.15
2	20	0.50	217.81	1566.42
2	40	0.63	133.79	1585.74
2	50	0.63	130.85	1554.28
2	60	0.63	129.94	1544.55

Printed: 2020.01.06 @ 18:37:49

Ref. No: 65465





Inside Vincent Oil Corporation

Fairchild 1-22

DST Test Number: 4

Printed: 2020.01.06 @ 18:37:50

Ref. No: 65465





Serial #: 8788 Outside Vincent Oil Corporation



Scale 1:240 Imperial

	Scale 1.240 Imperial		
Well Name:	FAIRCHILD 1-22		
Surface Location: Bottom Location:	350' FNL 2565' FEL 22-28S-8W		
API:	15-095-22333-00-00		
License Number:	5004	Timo	8·52 AM
Region:	MID CON	Time.	0.52 AW
Drilling Completed:	1/8/2020	Time:	12:08 AM
Surface Coordinates: Bottom Hole Coordinates:			
Ground Elevation:	1599.00ft		
K.B. Elevation:	1611.00ft	To	4500 00ft
Total Depth:	4500.00ft	10.	4500.001
Formation:	HERTHA		
Drilling Fluid Type:			
	OPERATOR		
Company:	VINCENT OIL CORPORATION		
Address:	200 W DOUGLAS AVE STE 725 WICHITA KS 67202		
Contact Geologist: Contact Phone Nbr:	DICK JORDAN 316 262 3573		
Well Name:	FAIRCHILD 1-22		
Location:	350' FNL 2565' FEL 22-28S-8W		
Pool:	DEVELOPMENT	Field:	GARLISCH SW
State:	KS	Country:	USA
	CONTRACTOR]
Contractor:	DUKE DRILLING CO., INC.		
Rig #:			
Rig Type: Soud Date:	MUD ROTARY 12/27/2019	Time	8.22 AM
TD Date:	1/8/2020	Time:	12:08 AM
Rig Release:	1/8/2020	Time:	11:15 PM
	LOGGED BY		
2			
Company: Address	VINCENT OIL CORPORATION		
Phone Nhr	316 262 3573		
Logged By:	Geologist	Name:	TOM DUDGEON
)

ELEVATIONS

C

d Elevetien 1500 00ft

K P Elevation: 1611.00ft

surement Depth: TVD: 4500.00 4504.00 4504.00 4504.00 IMARY From Depth To Depth 0.00ft 0.00ft RY # of Joints Drilled Out At 7 12/30/2019 2:45 AM 102 1/8/2020 11:15 PM CE Size At 309.00 ft 4495.00 ft iS Time Spent: 6 Run Successful: 4 Remarks Run #
surement Depth: TVD: 4500.00 4504.00 4504.00 MARY From Depth To Depth 0.00ft 0.00ft 7 * * * * * of Joints Drilled Out At 7 12/30/2019 2:45 AM 102 1/8/2020 11:15 PM CE Size At 309.00 ft 4495.00 ft - S Time Spent: 6 Run Successful: 4 Remarks Run #
Surement Depth: TVD: 4500.00 4504.00 4504.00 4504.00 IMARY From Depth To Depth 0.00ft 0.00ft ?Y # of Joints Drilled Out At 7 12/30/2019 2:45 AM 102 1/8/2020 11:15 PM CE Size At 309.00 ft 4495.00 ft is Time Spent: 6 Remarks Run #
4500.00 4504.00 IMARY From Depth To Depth 0.00ft 0.00ft RY # of Joints Drilled Out At 7 12/30/2019 2:45 AM 102 1/8/2020 11:15 PM CE Size At 309.00 ft 4495.00 ft is Time Spent: 6 Remarks Run #
IMARY From Depth To Depth 0.00ft 0.00ft Remarks To Depth 0.00ft 0.00ft 0.00ft 0.00ft 0.00ft 0.00ft 0.00ft 0.00ft 0.00ft 0.00ft 0.00ft 0.00ft 102 1/8/2020 11:15 PM CE Size Size At 309.00 ft 4495.00 ft Image: Spent: 6 Remarks Run #
From Depth To Depth 0.00ft 0.00ft # of Joints Drilled Out At 7 12/30/2019 2:45 AM 102 1/8/2020 11:15 PM CE Size At 309.00 ft 4495.00 ft iS Time Spent: 6 Run Successful: 4 Remarks Run #
0.00ft 0.00ft RY # of Joints Drilled Out At 7 12/30/2019 2:45 AM 102 1/8/2020 11:15 PM CE 309.00 ft Size At 309.00 ft 4495.00 ft is Time Spent: 6 Remarks Run #
of Joints Drilled Out At 7 12/30/2019 2:45 AM 102 1/8/2020 11:15 PM CE Size At 309.00 ft 4495.00 ft Image: Size At Time Spent: 6 Run
of Joints Drilled Out At 7 12/30/2019 2:45 AM 102 1/8/2020 11:15 PM CE Size At 309.00 ft 4495.00 ft iS Time Spent: 6 Run Successful: 4 Remarks Run
of Joints Drilled Out At 7 12/30/2019 2:45 AM 102 1/8/2020 11:15 PM CE Size At 309.00 ft 4495.00 ft iS Time Spent: 6 Run Successful: 4 Remarks Run
of Joints Drilled Out At 7 12/30/2019 2:45 AM 102 1/8/2020 11:15 PM CE Size At 309.00 ft 4495.00 ft iS Time Spent: 6 Run Successful: 4 Remarks Run
7 12/30/2019 2:45 AM 102 1/8/2020 11:15 PM CE Size At 309.00 ft 4495.00 ft iS Time Spent: 6 Run Successful: 4 Remarks Run #
102 1/8/2020 11:15 PM CE 309.00 ft 309.00 ft 4495.00 ft iS
CE Size At 309.00 ft 4495.00 ft is Time Spent: 6 Run Successful: 4 Remarks Run #
CE Size At 309.00 ft 4495.00 ft is Time Spent: 6 Run Successful: 4 Remarks Run #
Size At 309.00 ft 4495.00 ft iS Time Spent: 6 Run Successful: 4 Remarks Run #
iS Time Spent: 6 Run Successful: 4 Remarks Run #
Time Spent: 6 Run Successful: 4 Remarks Run #
Time Spent: 6 Run Successful: 4 Remarks Run #
Time Spent: 6 Run Successful: 4 Remarks Run #
Time Spent: 6 Run Successful: 4 Remarks Run #
Remarks Run #
Remarks Run #
Remarks Run #
1
1
2
UMMARY
n Of Operation
n Of Operation N SUCCESSFULLY
UMMARY

WINT	1482	129	-9	-19
Tow	1546	65	-2	-9
B/Flor	1669	-58	2	-6
Cottnwd	1871	-260	4	-4
Red Eagle	2051	-440	4	-3
Onaga	2201	-590	-3	-10
Ind. Cave	2211	-600	1	-15
Wabun.	2241	-630	3	-8
Stotler	2389	-778	2	-10
Howard	2639	-1028	4	-5
Topkea	2769	-1158	1	-4
Heebner	3150	-1539	2	-7
BL	3360	-1749	2	-7
Lans	3373	-1762	1	-2
Stark	3715	-2104	-2	FLT
Hush	3754	-2143	FLT	-1
Cher	3955	-2344	-2	1
Miss	4033	-2422	-3	28
Miss Lm	4131	-2520	6	6
Kind	4216	-2605	FLT	16
Viola	4389	-2778	-11	5
Simp Sd	4442	-2831	-10	-16

STRAIGHT HOLE SURVEY

Degree Depth 1° 823' 3/4° 1450'

3/4° 2017'

3/4° 2475'

1° 2975

1° 3772'

12/30/2019 Completed rig up and mixed mud. Spud well in at 10:30 Am 12/30/2019. Drilled 12.25" surface hole to 310', CTCH. Ran wiper trip. CTCH, TOOH. Ran 7 joints of new 8 5/8", 23# surface casing, set at 309' and cemented with 275 sx 60 / 40 POZ (2% Gel, 3% CC & 1/4# Cel-flake/sx). Plug down at 6:15 PM 12/30/2019. WOC, drilled out from under surface casing plug at 2:45 AM 12/31/2019

12/31/2019 At 573', Drilling ahead, drilled to 1450', CFS, Ran short trip, CTCH. Spotted 40 bbls Mud to condition wellbore for test. TOOH for DST #1 1375' to 1450' (Chase)

1/1/2020 At 1450', Preparing to trip in hole following DST #1 1375' to 1450'.

1/2/2020 At 2270', Drilling ahead, drilled to 2475', preparing for DST #2 2333' to 2475' (Stotler)

1/3/2020 At 2616', Drilling ahead following DST #2 2333' to 2475' (Stotler)

Displaced mud system at 2995'

1/4/2020 At 3475', Drilling ahead, drilled ahead to 3772, circulated for samples, TOOH with bit, preparing for DST #3 3748' to 3772' (Hertha Limestone)

1/5/2020 At 3773', DST #3 3748' to 3772' (Hertha Limestone), in progress. TOOH with test tool.

1/6/2020 At 4055', Preparing for DST #4 3983' to 4055' (Mississippian)

1/7/2020 At 4258', Drilling ahead, drilled to 4500', RTD, CTCH, TOOH for logs

1/8/2020 At 4500', RTD, ran electric logs (DIL, Density-Neutron, Micro-log, & Sonic), LTD at 4504',

Following completion of logging operations tripped back in hole with drill pipe & drill collars, and CTCH. Rigged up casing crew and TOOH laying down drill pipe and drill collars. Nippled down BOP. Ran 102 joints of new 4.5", 11.6# production casing. Set casing at 4495' and CTCH. Rigged up cementers and plugged the rathole with 30 sx and plugged the mousehole with 20 sx. Pumped 200 sx Pro C cement, released plug and displaced with 60 bbls of 2% KCL water. Plug landed at 1100# and pressured up to 1600 #. Plug held. Plug was down at 11:15 PM 1/8/2020. Cleared pits and released rig































SIMP SD 4442 (-2831)(-10)(-16) CFS	4440	SS clusters, wht to opaque, med. to co-gr, sub ang to rnded, well cemented/tite, no odor, NS
	4460	SS clusters, wht to brn, f- to co-gr, sub ang to sub rnd, poorly sorted, tite to firm, some glauc, most pcs A.A., NS
	4470	SS clusters, wht, some brn, f to co-gr, poorly sorted, friable to firm, some pcs dolomitic to shaly(argillaceous flakes) SH, gray to green, silty to waxy, firm
	4480	SS clusters, A.A., lesser, SH, grays to green, fresh, platy, maroon to mustard yellow pcs.
Total Gas (units) CFS 0 BOP (min/ft)	4500	SH, gray to green, mustard yellow, maroon, striated, firm to soft, platy, some blocky pcs, silty in pt.,
RTD 4500 @ 12:08 AM 1/8/2020	4510	
	4520	
	4530	
Image: Section of the section of t	4540	