KOLAR Document ID: 1509859

Confidentiality Requested:

Yes No

### Kansas Corporation Commission Oil & Gas Conservation Division

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

## WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City:	Feet from _ East / _ West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
☐ Oil ☐ WSW ☐ SWD	Elevation: Ground: Kelly Bushing:
☐ Gas ☐ DH ☐ EOR	Total Vertical Depth: Plug Back Total Depth:
☐ OG ☐ GSW	Amount of Surface Pipe Set and Cemented at: Feet
<ul><li>☐ CM (Coal Bed Methane)</li><li>☐ Cathodic</li><li>☐ Other (Core, Expl., etc.):</li></ul>	Multiple Stage Cementing Collar Used? Yes No
	If yes, show depth set: Feet
If Workover/Re-entry: Old Well Info as follows:	
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to: 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)
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR	·
GSW	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	QuarterSecTwpS. 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: 1509859

#### Page Two

Operator Name:					Lease Nam	ne:			Well #:		
Sec Tw	rpS	S. R	Eas	st West	County:						
	l, flowing an	d shut-in pres	sures, wh	ether shut-in pre	ssure reached	static	level, hydrostat	ic pressures, bo		val tested, time tool erature, fluid recovery,	
Final Radioactivi files must be sub							gs must be emai	led to kcc-well-l	ogs@kcc.ks.go	v. Digital electronic log	
Drill Stem Tests (Attach Addit		1		Yes No		Lo		n (Top), Depth a		Sample	
Samples Sent to	Geological	Survey		Yes No		Name			Тор	Datum	
Cores Taken Electric Log Run Geologist Report List All E. Logs F	t / Mud Log	s		Yes No Yes No Yes No							
			Rej	CASING	RECORD [	Nev		on, etc.			
Purpose of String Size Hole Drilled				Size Casing let (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives	
				ADDITIONAL	CEMENTING /	SQUE	EEZE RECORD		'		
Purpose: Perforate		Depth Top Bottom	Тур	e of Cement # Sacks Used			ed Type and Percent Additives				
Protect Ca											
Plug Off Z											
Did you perform     Does the volume     Was the hydraul	e of the total	base fluid of the	hydraulic	fracturing treatment		-	Yes S? Yes Yes	No (If No, s	kip questions 2 ar kip question 3) Il out Page Three		
Date of first Produ Injection:	ction/Injectio	n or Resumed Pi	roduction/	Producing Meth	od:		Gas Lift O	ther <i>(Explain)</i>			
Estimated Product Per 24 Hours		Oil	Bbls.		Mcf	Water			Gas-Oil Ratio	Gravity	
DISPO	OSITION OF	GAS:		N	METHOD OF CO	MPLET	ΓΙΟΝ:			ON INTERVAL:	
Vented		Used on Lease		Open Hole		Dually ( Submit A		nmingled	Тор	Bottom	
,	ed, Submit AC							·			
Shots Per Foot	Perforation Top	on Perfor Bott		Bridge Plug Type	Bridge Plug Set At		Acid,		ementing Squeeze and of Material Used)		
TUBING RECORI	D: S	size:	Set A	: -	Packer At:						

Form	CO1 - Well Completion				
Operator	Messenger Petroleum, Inc.				
Well Name	SPENCER 1				
Doc ID	1509859				

### Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Type and Percent Additives
Surface	12.25	8.625	24	366	Class A	2% gel, 3% CC

810 E 7<sup>™</sup> PO Box 92 EUREKA, KS 67045 (620) 583-5561



Cement or Acid Field Report
Ticket No. 4915

Foreman Kevin McCoy
Camp Eureka

#		
API #15-13	9-2010	7-00-00

Date	Cust. ID#	Lease & Well Number		Section Township		Range		County	State		
12-16-19	1367	Spencer # 1		8	17	75	17E		OSAge	K5	
Customer				Safety	Unit #		Driv			Unit #	Driver
Messena	er feth	okum INC		Meeting	104		AlAN	M.			
Mailing Address				KM	113		Kevin				
575 S.	MAIN S	7.		5M	127 P.L	۱.	5teve	m.			
City		State	Zip Code								
KINGMA.	$\sim$	Ks	67048								
Job Type Sur	FACE	Hole Den	th 370' KB		Slurry Vol. 6	0			Tubin	g	
Casing Depth			e 12'14		Slurry Wt. 15						
Casing Depth_	95/0" 21	Tible 312			1 -						
Casing Size & W			eft in Casing 30								
Disp <mark>lacement </mark>	1. LbL	Displace	ement PSI		Bump Plug to				BPM.		
Remarks: SAF	ety Me	eting: Big	up to 85/8 (	Asing.	BREAK C	icco	Intron	w/ 12	2 Bb	L Fresh	water.
MIXED XS	3 5K5 6	ASS A Lei	next w/ 5%	CACLE	, 2% GeL,	14	+10SE	AL /SK	67	15 /9AL =	= 60 BBL
Sourry. D	15Place	w/ 21.5 Bb	- Fresh water	er. St.	ut CASING	IN.	6000	1 Cem	ent	Returns	70
SURFACE =	12 BK S	bray to fi	t. Job Comp	lete.	Rig down	1					
		,	/		/						
											2 -
											1

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C/0/	/	Pump Charge	890.00	890.00
C 107	70	Mileage	4.20	294.00
C 200	255 sks	Class A Cement	15.75	4016.25
C 205	720#	CACLZ 3%	. 63 #	453.60
C 206	480 *	GeL 2%.	. 21 st	160.80
C 209	64 *	F105EAL 14# 15K	2.35 #	150.40
C 108B	11.98 TONS	Ton MileAge	1.40	1174.04
		/		7
		t _		
			SUB TOTAL	7079.09
		THANK YOU 7.5%	Less 5%	371.66
			Sales Tax	354.08
Authoriza	ation ala	1 . /	_ Total	7,061.51

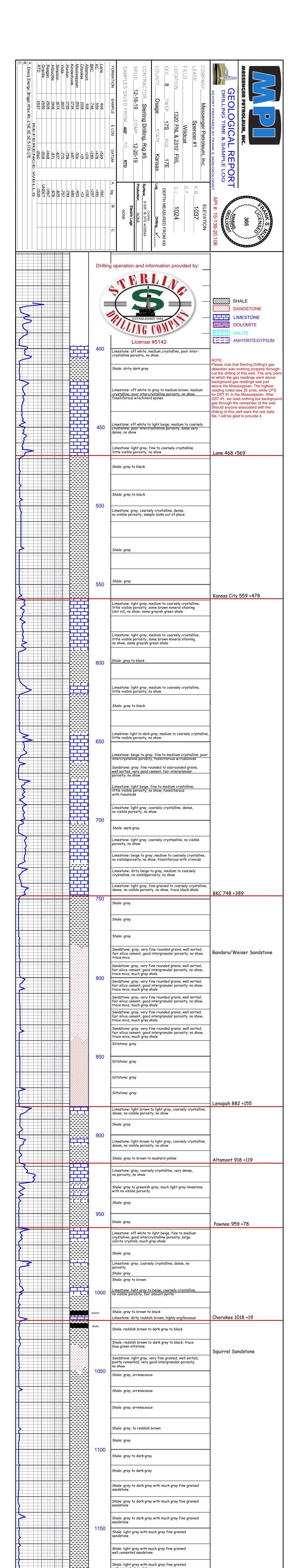
# GLOBAL OIL FIELD SERVICES, LLC

REMIT TO

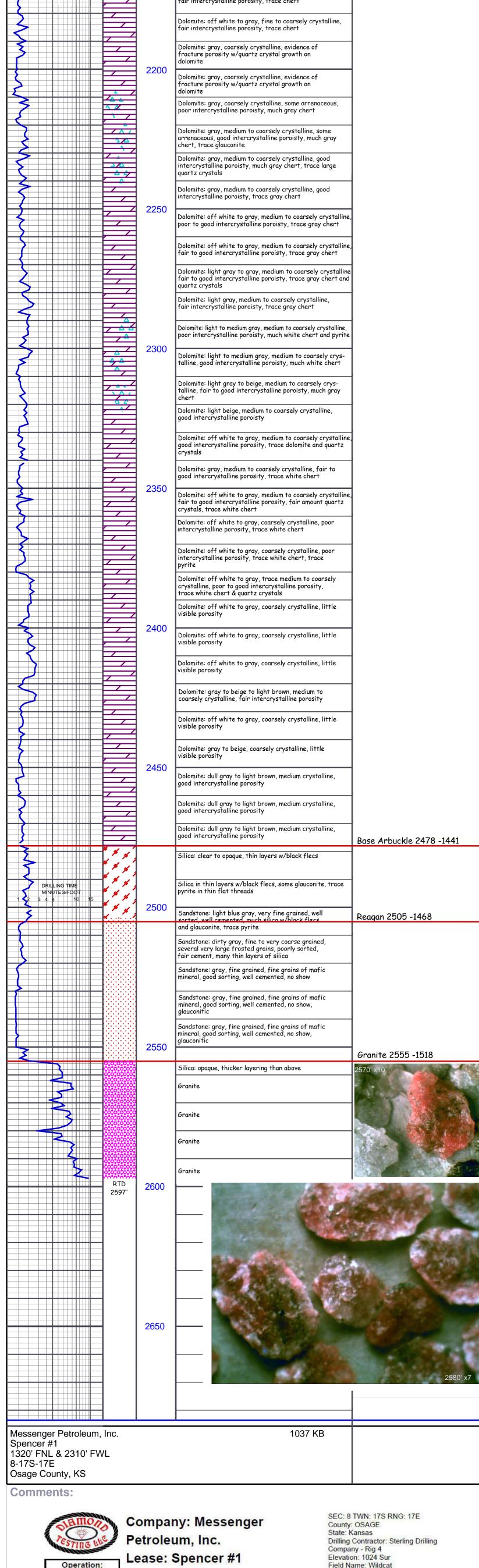
24 S. Lincoln Russell, KS 67665

SERVICE POINT:

TWP. . SEC. CALLED OUT ON LOCATION JOB START JOB FINISH DATE /2 20-19 10,30 ap COUNTY STATE LEASE Spor / TY WELL#. OLD OR NEW (CIRCLE ONE) CONTRACTOR OWNER TYPE OF JOB HOLE SIZE T.D. CEMENT DEPTH CASING SIZE AMOUNT ORDERED TUBING SIZE DEPTH DRILL PIPE DEPTH TOOL DEPTH PRES. MAX MINIMUM COMMON MEAS. LINE SHOE JOINT POZMIX \_\_\_ @\_ CEMENT LEFT IN CSG. (a)\_\_ PERFS CHLORIDE (a) \_ DISPLACEMENT ASC (a) **EQUIPMENT** (a), (a) \_ CEMENTER PUMP TRUCK (a) HELPER @\_\_ BULK TRUCK (a)\_ DRIVER (a) \_ **BULK TRUCK** (a) DRIVER (a) HANDLING\_ MILEAGE TOTAL REMARKS: SERVICE DEPTH OF JOB\_ PUMP TRUCK CHARGE\_\_\_ EXTRA FOOTAGE\_\_\_\_\_ \_ @ \_ 4-405V MILEAGE \_\_\_\_ \_ @ \_ MANIFOLD .... (a) TOTAL STREET \_\_ STATE \_\_\_\_ZIP PLUG & FLOAT EQUIPMENT Global Oil Field Services, LLC You are hereby requested to rent cementing equipment and (a) \_ furnish cementer and helper(s) to assist owner or contractor to (a) . do work as is listed. The above work was done to satisfaction (a) and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side. TOTAL \_ PRINTED NAME SALES TAX (If Any)\_ TOTAL CHARGES\_ DISCOUNT IF PAID IN 30 DAYS



			well cemented sandstone		
correction +2'			Shale: light to dark gray to reddish brown with much gray fine grained well cemented sandstone		
		1200	Shale: light to dark gray to reddish brown with much gray fine grained well cemented sandstone  Shale: gray, arrenaceous, fair amout gray sandstone		
			Shale: gray to reddish brown, some arrenaceous, fair amout gray sandstone, pyritic		
			Shale: red to gray, fair amount gray sandstone, highly argillaceous		
correction  2'			Shale: red to gray, fair amount gray sandstone, highly argillaceous		
		1250	Shale: blue green to gray to black, fair amount gray sandstone  Limestone: off white to beige, fine to medium		
			crystalline, poor intercrystalline porosity, no show  Shale: red to green to dark gray, trace gray fine grained sandstone		
			Shale: gray to black		
			Shale: gray to black		
		1300	Shale: gray to black		
			Shale: gray to black Shale: gray to black		
			Shale: gray to black		
			Shale: gray to black		
		1350	Shale: gray to black  Shale: gray to black		
			Shale: gray to black		
			Shale: gray to black		
		1400	Shale: gray to black		
			Shale: gray to black		
			Shale: gray to black	1477' 15" x21 dry	
	2 2 2 2 2 A A A A	1450	Chert: off white, fresh, poor to fair pin point and	Mississippian 1553 -516  Note: this oil has extremely pale	
	, <u>-</u>		weathered porosity, very good show heavy black oil, will not flow/mix with water, fair to good odor, no even staining, Chert: off white, fresh to tripolitic, fair pinpoint and tripolitic porosity, fair amount large dolomite crystals w/excellent intercrystalline porosity, excellent show	fluorescence	
			heavy black oil, strong odor, oil does not mix w/water  Dolomite: white to off white, fine to coarsely crystalline,		
DRILLING TIME MINUTES/FOOT  1 2 3 4 5 10 15	7		poor intercrystalline and pin point porosity, scattered spotted show free oil, good odor  Dolomite: off white to gray, fine to coarsely crystalline, fair intercrystalline porosity, no show, fair amount pyrite,		
3 4 5 110 115	7	1500	trace off white to opaque chert  Dolomite: off white to beige, fine to medium crystalline, little visible porosity, trace blue green dolomite	1477' 15" x10 dry	
	7		Dolomite: off white to gray, fine crystalline, good intercrystalline porosity, no show, very large pyrite crystals  Dolomite: off white to gray, fine crystalline, good		
	7 / / / / /		intercrystalline porosity, no show, very large pyrite crystals  Dolomite: light brown to beige, coarsely crystalline, little visible porosity, no show, fair amount gray chert	1477' x29dry	
			Chert: pale gray opaque, fresh, trace light brown sucrosic dolomite w/excellent intercrystalline porosity		
		1550	Chert: pale gray opaque, fresh, trace light brown sucrosic dolomite w/excellent intercrystalline porosity  Chert: pale gray opaque, fresh, fair amount light brown		
			Sucrosic dolomite w/excellent intercrystalline porosity  Chert: pale gray opaque, fresh, fair amount light brown sucrosic dolomite w/excellent intercrystalline porosity	1477' 30" x22	
	Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ-Δ Δ Δ <u>Δ</u> -Δ		Chert: pale gray opaque, fresh, fair amount light brown sucrosic dolomite fair intercrystalline porosity		
	, A	1600	Dolomite: beige to gray, fine to coarsely crystalline, fair to good intercrystalline porosity, fair amount white chert  Dolomite: beige to gray, fine to coarsely crystalline,		
			fair to good intercrystalline porosity, fair amount white chert  Limestone: off white, fine grained, dense, little visible porosity, fair amount off white chert and beige dolomite.		
			Limestone: off white to light gray, fine grained to coarsely crystlline, slightly dolomitic, little visible porosity, no show		
			Limestone: off white to light gray, fine grained to coarsely crystlline, slightly dolomitic, little visible porosity, no show  Limestone: medium to dark gray, fine to medium		
		1650	crystalline, very poor intercrystalline porosity, no show  Limestone: medium to dark gray, fine to medium crystalline, very poor intercrystalline porosity, no show		
			Limestone: medium gray tp dirty brown, fine to medium crystalline, very poor intercrystalline porosity, no show trace gray chert	SHALE	
			Limestone: medium gray tp dirty brown, fine to medium crystalline, very poor intercrystalline porosity, no show trace gray chert  Limestone: medium gray tp dirty brown, fine to medium	SANDSTONE	
			crystalline, very poor intercrystalline porosity, no show trace gray chert  Limestone: medium gray, fine grained, micritic, little visible porosity, no show, trace gray chert	DOLOMITE  HALITE  ANHYDRITE/GYPSUM	
		1700	Limestone: medium gray, fine grained, micritic, little visible porosity, no show, trace gray chert		
			Limestone: medium gray, fine grained, micritic, little visible porosity, no show, trace gray chert  Limestone: medium gray, fine grained, micritic, little		
			visible porosity, no show, fair amount gray chert  Shale: gray	Kinderhook 1734 -697	
		1750	Shale: gray to greenish gray		
Tooke Recorder Out			Shale: gray to greenish gray  Shale: gray to greenish gray		
			Shale: gray to greenish gray		
			Shale: gray to greenish gray  Shale: gray to greenish gray	11	
		1800	Dolomite: light brown, medium crystalline, very good intercrystsalline porosity, no show  Dolomite: light brown, medium crystalline, very good intercrystsalline porosity, no show	Hunton 1795 -758  Viola 1807 -770	
			Limestone: off white, fine grained, no visible porosity		
			Limestone: off white, fine grained, no visible porosity  Limestone: off white, fine grained, slightly dolomitic,		
			no visible porosity  Limestone: off white, medium to coarsely crystalline, little visible porosity, much pyrite, trace large dolomite		
		1850	crystals  Limestone: off white, medium to coarsely crystalline, little visible porosity		
			Limestone: off white, medium to coarsely crystalline, little visible porosity, trace white to gray chert Limestone: off white, medium to coarsely crystalline, little visible porosity, fair amount very fine grained sandstone w/dolomitic cement	1900' x22 Simpson 1874 -837	
			sandstone w/dolomitic cement  Sandstone: off white to gray to greenish gray, fine rounded grains, well sorted, poor silica cement, very good intergranular porosity, no show  Sandstone: frosted, fine to medium sub rounded grains	22. 1 001	
			Sandstone: frosted, fine to medium sub rounded grains, fairly sorted, poor silica cement, excellent intergranular porosity, no show  Sandstone: blue green, fine grained, well sorted, poor silica cement, very good intergranular porosity, no show		
		1900	silica cement, very good intergranular porosity, no show, trace w/pyrite cement  Dolomite: off white to beige, coarsely crystalline, no	Arbuckle 1908 -871	
	A A A A		Dolomite: off white to beige, coarsely crystalline, no visible porosity, fair amount off white chert  Dolomite: off white to beige, coarsely crystalline, no visible porosity, fair amount off white chert		
			Dolomite: off white to beige, coarsely crystalline, no visible porosity, fair amount off white chert		
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1950	Dolomite: off white to beige, coarsely crystalline, no visible porosity, fair amount off white chert  Dolomite: off white to beige, medium to coarsely		
	<u></u>		crystalline, trace fair intercrystalline and vuggy porosity, fair amount off white chert  Dolomite: off white to light brown, coarsely crystalline, very poor intercrystalline porosity, fair amount off white		
	A /		Chert  Dolomite: off white to light brown, coarsely crystalline, very poor intercrystalline porosity, fair amount off white chert		
DRILLING TIME	\(\lambda_{\text{\chi}}\)		Dolomite: off white to light brown, coarsely crystalline, very poor intercrystalline porosity, fair amount off white chert  Dolomite: beige to gray, coarsely crystalline, little visible		
MINUTES/FOOT 2 3 4 5 10 15		2000	porosity, fair amount off white chert  Dolomite: beige to gray, coarsely crystalline, little visible porosity, fair amount off white chert		
			Dolomite: beige to gray, coarsely crystalline, little visible porosity, fair amount off white chert		
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Dolomite: beige to gray, coarsely crystalline, little visible porosity, fair amount off white chert  Dolomite: beige to gray, coarsely crystalline, little visible		
			porosity, fair amount off white chert  Dolomite: beige to gray, medium to coarsely crystalline, poor to fair intercrystalline porosity, fair amount off white		
	/ y	2050	Chert  Dolomite: beige to gray, medium to coarsely crystalline, poor to fair intercrystalline porosity, fair amount off white chert		
	/		Dolomite: beige to gray, medium to coarsely crystalline, poor to fair intercrystalline porosity, fair amount off white chert  Dolomite: beige to gray, medium to coarsely crystalline,		
			poor to fair intercrystalline porosity, fair amount off white and trace oolitic chert  Dolomite: beige to gray, medium to coarsely crystalline, poor to fair intercrystalline porosity, fair amount off white		
		2400	chert, and trace large dolomite crytals  Dolomite: beige to gray, medium crystalline, excellent intercrystalline porosity, fair amount off white chert		
		2100	Dolomite: beige to gray, medium crystalline, excellent intercrystalline porosity, fair amount off white chert		
	, , , , , , , , , , , , , , , , , , ,		Dolomite: beige to gray, medium to crystalline, fair to	J	
			Dolomite: beige to gray, medium to crystalline, poor intercrystalline porosity, fair amount off white chert,		
			Dolomite: beige to gray, medium to crystalline, poor intercrystalline porosity, fair amount off white chert, trace large dolomite crystals  Dolomite: beige to gray, medium to crystalline, poor intercrystalline porosity, fair amount off white chert, trace quartz crystals		
		2150	Dolomite: beige to gray, medium to crystalline, poor intercrystalline porosity, fair amount off white chert, trace large dolomite crystals  Dolomite: beige to gray, medium to crystalline, poor intercrystalline porosity, fair amount off white chert, trace quartz crystals  Dolomite: off white to light brown, medium to coarsely crystalline, very good intercrystalline porosity, no show, fair amount gray and trace white chert, 3 quartz crystals  Dolomite: beige to gray, medium to coarsely crystalline,		
		2150	Dolomite: beige to gray, medium to crystalline, poor intercrystalline porosity, fair amount off white chert, trace large dolomite crystals  Dolomite: beige to gray, medium to crystalline, poor intercrystalline porosity, fair amount off white chert, trace quartz crystals  Dolomite: off white to light brown, medium to coarsely crystalline, very good intercrystalline porosity, no show, fair amount gray and trace white chert, 3 quartz crystals		





Uploading recovery &

pressures

DATE

December

18

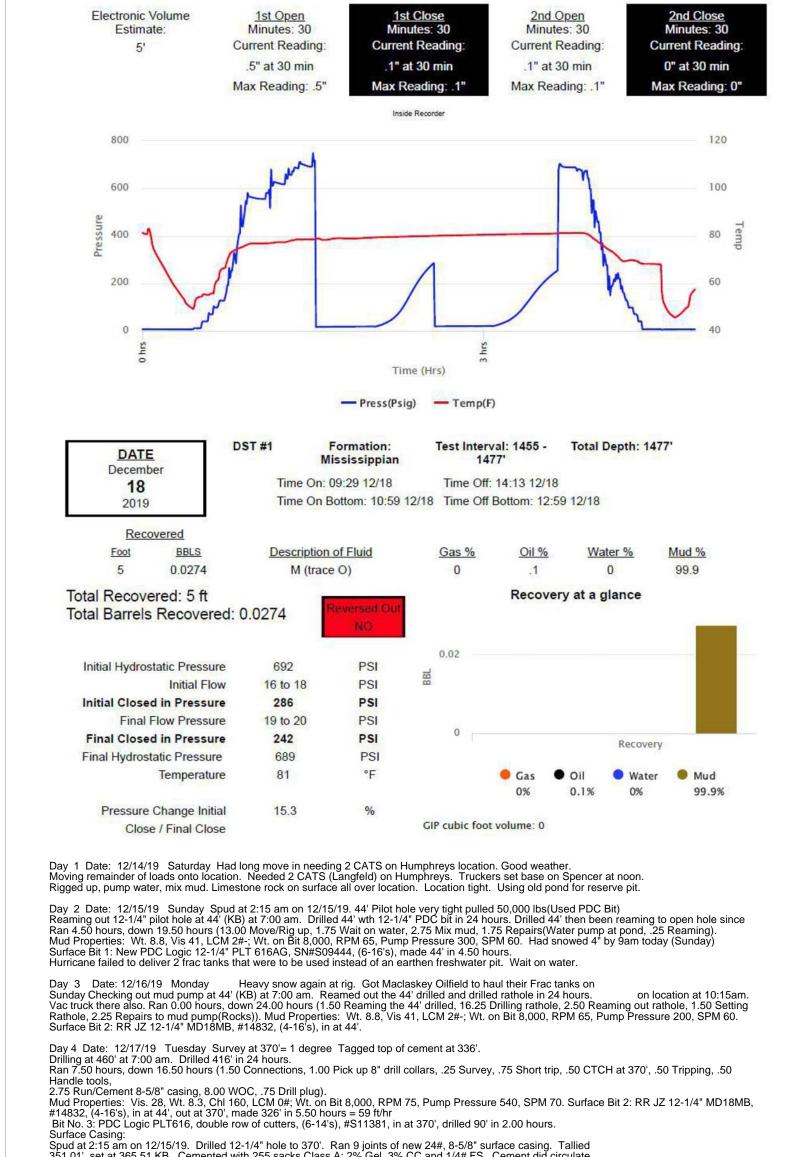
2019

**DST #1** 

Formation:

Mississippian

Time On: 09:29 12/18



Sund at 2:15 am on 12/15/19. Drilled 12-1/4" hole to 370'. Ran 9 joints of new 24#, 8-5/8" surface casing. Tallied 351.01', set at 365.51 KB. Cemented with 255 sacks Class A; 2% Gel, 3% CC and 1/4# FS. Cement did circulate Plug down at 8:00 pm on 12/16/19. Elite Cementing ticket #4915. W elded straps on bottom 4 joints. Tacked collars on remainder. Cut Texas shoe.

Survey at 1477' = 1/4 degree Circulating to clean the hole at 1477' at 7:00 am. Drilled 1017' in 24 hours On bank at 3:30 am. Tester no show. Trip back in hole at 5:45 am to circulate. Ran 12.25 hours, down 11.75 hours (1.00 Rig check, 2.75 Connections, 1.00 CFS at 1477', 1.00 Short trip 15 stands, 1.00 CTCH at 1477', .25 Survey, 1.25 Trip out, 2.25 Wait on tester, 1.25 Trip back to bottom to circulate). Mud Properties: Chemical/ Pac; Wt. 9.3, Vis 46, PV/YP 13/21, WL 6.8, pH 12.0, Chl. 300, LCM 2#; Wt. on Bit 10/14,000, RPM 70, Pump Pressure 760, SPM 70.

Day 6 Date: 12/19/19 Thursday DST #1 (1455' - 1477'). Sterling Daq quit logging (1746' - 1761') Drilling at 2055' at 7:00 am. Drilled 578' in 24 hours. Ran 12.50 hours, down 11.50 hours (1.00 Rig chk, 1.75 Conn, .50 Pick up 10 joints DP for DST, 1.50 Handle tools, 2.00 DST #1, 3.50 Tripping, 1.25 CTCH at 1477'). Mud Properties: Chemical/ Pac; Wt. 9.3, Vis 50, PV/YP 15/15, WL 7.2, pH 12.0, Chl. 550, LCM 8#; Wt. on Bit 16/18,000, RPM 65/70, Pump Pressure 800, SPM 70.

Day 7 Date: 12/20/19 Friday RTD= 2597'. No logs. Will LDDP and plug today.
Nippling down BOP at RTD 2597' at 7:00 am. Drilled 542' in 24 hours. Will move rig off hole Saturday.
Ran 17.00 hours, down 7.00 hours (1.00 Rig check, 1.50 Connections, .50 CTCH at 2597', 1.25 Trip out, 1.00 Lay down Drill collars, 1.00 Pull BOP, .75 Break/LD Kelly). Mud Properties: Chemical/ Pac; Wt. 9.2 Vis 54, PV/YP 16/16, WL 6.4, pH 12.0, Chl. 500, LCM 8#; Wt. on Bit 18,000, RPM 65, Pump Pressure 840, SPM 70.
Bit No. 3: PDC Logic PLT616, double row of cutters, (6-14's), #S11381, in at 370', drilled 2227' in 43.75 hour 32

Day 5 Date: 12/18/19 Wednesday Mud up at 550'. Trip out at 1477' for DST #1 at 1477'

Pool: Wildcat

Test Interval: 1455 -

1477

Time On Bottom: 10:59 12/18 Time Off Bottom: 12:59 12/18

Time Off: 14:13 12/18

Job Number: 429

API#: 15-139-20107-00-00

Total Depth: 1477'