KOLAR Document ID: 1357063

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.xxxxxx) (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
CM (Coal Bed Methane)	Multiple Stage Cementing Collar Used? Yes No
Cathodic Other (Core, Expl., etc.):	
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: 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 Permit #:	Location of fluid disposal if fladica offsite.
GSW Permit #:	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 Approved by: Date:

KOLAR Document ID: 1357063

Page Two

Operator Name:					Lease Nam	ne:			Well #:	
Sec Tw	pS. F	R [East	West	County:					
open and closed and flow rates if	, flowing and sh gas to surface t ty Log, Final Lo	nut-in pressurest, along wit	es, whe h final c ain Geo	ther shut-in pre hart(s). Attach physical Data a	essure reached extra sheet if r and Final Electr	station more : ric Loc	level, hydrosta space is needed	tic pressures, d.	bottom hole tempe	val tested, time tool erature, fluid recovery, Digital electronic log
Drill Stem Tests (Attach Addit			Ye	es No		Lo	og Formatio	n (Top), Deptl	n and Datum	Sample
Samples Sent to	Geological Sur	vey	Ye	es 🗌 No		Name)		Тор	Datum
Cores Taken Electric Log Run Geologist Repor List All E. Logs F	t / Mud Logs		Y€ Y€	es No						
			Repo		RECORD [Nev	w Used rmediate, producti	on. etc.		
Purpose of St		ze Hole Orilled	Siz	e Casing (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
				ADDITIONAL	OF MENTING /					
Purpose:	[Depth	Typo	of Cement	# Sacks Use		EEZE RECORD	Typo a	nd Percent Additives	
Perforate Protect Ca Plug Back	Top	Bottom	туре	or cement	# Sacks Use	,u		туре а	ia Percent Additives	
Plug Off Z										
Did you perform Does the volum Was the hydraul	e of the total base	fluid of the hyd	draulic fra	cturing treatmen		•	Yes ns? Yes	No (If No	, skip questions 2 an , skip question 3) , fill out Page Three o	,
Date of first Produ	ction/Injection or	Resumed Produ	uction/	Producing Meth			Coolift 0	thor (Fundain)		
Estimated Produc	otion	Oil Bb	le.	Flowing Gas	Pumping Mcf	Wate		ther <i>(Explain)</i> bls.	Gas-Oil Ratio	Gravity
Per 24 Hours		Oli Bb	15.	Gas	IVICI	vvale	ı Di	JIS.	Gas-Oil Hallo	Gravity
DISPO	OSITION OF GAS	S:		N	METHOD OF CO	MPLE.	TION:		PRODUCTIO	N INTERVAL:
Vented	Sold Use	d on Lease		Open Hole		Dually		nmingled	Тор	Bottom
(If vente	ed, Submit ACO-18	.)			(5	SUDITIIL I	ACO-5) (Subi	mit ACO-4)		
Shots Per Foot	Perforation Top	Perforation Bottom	on	Bridge Plug Type	Bridge Plug Set At		Acid,		Cementing Squeeze Kind of Material Used)	Record
TUBING RECOR	D: Size:		Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	Black Stone Petroleum LLC
Well Name	SWOB 1
Doc ID	1357063

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3568-3580		

Form	ACO1 - Well Completion
Operator	Black Stone Petroleum LLC
Well Name	SWOB 1
Doc ID	1357063

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set			Type Of Cement		Type and Percent Additives
Surface	14.5	10.75	32.75	374	common	300	NA
Production	8.75	7	20	3616	common	150	NA



DIAMOND TESTING P.O. Box 157 HOISINGTON, KANSAS 67544 (800) 542-7313

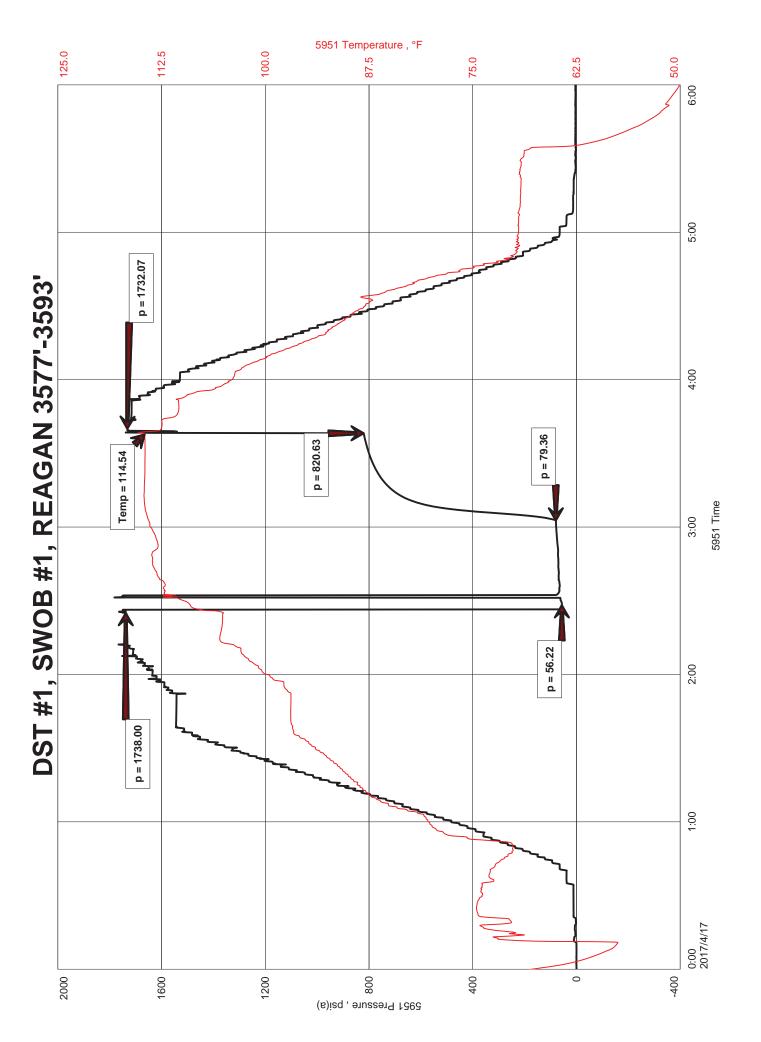
TIME ON: 23:35 4/16 TIME OFF:06:06 4/17

DRILL-STEM TEST TICKET FILE: SWOB1DST1

Dompary Diaron Ctorio i Ct	roleum LLC		Lease & Well No.SN	/OB #1			
Contractor Landmark Rig #	6		Charge to Black St	tone Petrole	um LLC		
Elevation 1973' KB	Formation Reagan		Effective Pay	F	t. Ticket No	o. <u>F476</u>	
Date 4/17/17 Sec.26	Twp	<u>18</u> s F	Range16	W CountyRush	1	State_KAN	SAS
Test Approved By Chris Leiker							
Formation Test No. 1	Interval Tested fro	m35	577 ft. to 3	3593 ft. Total De	epth	3593	<u>3</u> ft.
Packer Depth 3572 8	8" ft. Size 6 3/4	in.	Packer depth	ft	. Size6	3 3/4 in.	
Packer Depth 3577 8	8" ft. Size 6 3/4	in.	Packer depth	ft	. Size6	3/4 in.	
Depth of Selective Zone Set							
Top Recorder Depth (Inside)	3 	3579 ft.	Recorder Number	5951 ca	ıp	5000 p.s.	l.
Bottom Recorder Depth (Outside)			Recorder Number				
Below Straddle Recorder Depth		ft.	Recorder Number				
Mud Type CHEMICAL Vi	scosity38	3	Drill Collar Length				
Weight 9.1 Water						2 7/8	
Chlorides	47,000	P.P.M.	Drill Pipe Length				
Jars: Make_ STERLING Ser		8" pkrs					
Did Well Flow?	Reversed Out_		Anchor Length	16 ft.	Size	4 1/2-FH	ir
Blow: 1st Open: Slow building			Surface Choke Size5"	1in,	Bottom Cl	hoke Size_5/8	3_ir
Blow: 1st Open: Slow building 2nd Open: Recovered 160 ft. of WM	g blow, increas w/TR oil speck	ed to 5.2	5" oil, >44 wtr, % m	iud	Bottom Cl	hoke Size_5/8	3_ir
1st Open: Slow building 2nd Open:	g blow, increas w/TR oil speck	ed to 5.2	5" oil, >44 wtr, % m	iud	Bottom Cl	hoke Size_5/8	3_ir
1st Open: Slow building 2nd Open:	g blow, increas w/TR oil speck IN PIPE: ~100	ed to 5.2	5" oil, >44 wtr, % m	iud	Bottom Cl	hoke Size_5/8	3_ir
1st Open: Slow building 2nd Open:	g blow, increas w/TR oil speck	ed to 5.2	5" oil, >44 wtr, % m	iud		hoke Size_5/8	3ir
1st Open: Slow building 2nd Open:	g blow, increas w/TR oil speck	ed to 5.2	5" oil, >44 wtr, % m	oud Prid	ce Job		3_ir
1st Open: Slow building 2nd Open:	g blow, increas w/TR oil speck IN PIPE: ~100	ed to 5.2	5" oil, >44 wtr, % m	Pric Oth	ce Job ner Charges		<u>in</u>
1st Open: Slow building 2nd Open:	g blow, increas w/TR oil speck IN PIPE: ~100	ed to 5.2	5" oil, >44 wtr, % m	Pric Oth	ce Job		<u>in</u>
1st Open: Slow building 2nd Open:	g blow, increas w/TR oil speck IN PIPE: ~100	ed to 5.2	5" oil, >44 wtr, % m	Pric Oth	ce Job ner Charges urance		<u>ir</u>
1st Open: Slow building 2nd Open:	g blow, increas w/TR oil speck IN PIPE: ~100 ,000 PPM ohm @ 50 F	ed to 5.2	5" oil, >44 wtr, % m	Pric Oth Ins	ce Job ner Charges urance		irir
1st Open: Slow building 2nd Open:	g blow, increas w/TR oil speck IN PIPE: ~100 ,000 PPM ohm @ 50 F A.M. P.M. Time	ed to 5.2 SS < 0	5" oil, >44 wtr, % m	Pric Oth Ins	ce Job ner Charges urance		ir ir
1st Open: Slow building 2nd Open:	g blow, increas w/TR oil speck IN PIPE: ~100 ,000 PPM ohm @ 50 F A.MTime	ed to 5.2 SS < 0	5" oil, >44 wtr, % m	Prid Oth Insi Tot A.M. P.M. Maximu	ce Job ner Charges urance al m Temperal		<u>ir</u>
1st Open: Slow building 2nd Open:	g blow, increas w/TR oil speck IN PIPE: ~100 ,000 PPM ohm @ 50 F	ed to 5.2 (S < 0	ottom_03:35 (A)1	Pric Oth Inst	ce Job ner Charges urance al m Temperal	ture 115 F	3 ir
1st Open: Slow building 2nd Open:	g blow, increas w/TR oil speck IN PIPE: ~100 ,000 PPM ohm @ 50 F	ed to 5.2 SS < 0	ottom_03:35 (A)1	Prid Oth Ins Tot A.M. P.M. Maximu 738 P.S.I. 56 P.S.I. to (C)	ce Job ner Charges urance al m Temperal	ture 115 F	3
1st Open: Slow building 2nd Open:	g blow, increas w/TR oil speck IN PIPE: ~100 ,000 PPM ohm @ 50 F	ed to 5.2 SS < 0	ottom 03:35(A) 17 (B) (D) (E)	Prid Oth Ins Tot A.M. P.M. Maximu 738 P.S.I. 56 P.S.I. to (C) 821 P.S.I.	ce Job ner Charges urance al m Temperal	ture 115 F	3 ir

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

C:\Users\Diamond Testing 5\Desktop\Drill-stem Test\swob1dst1.fkt 17-Apr-17 Ver



DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544 (800) 542-7313

DRIL	L-ST	EM	TEST	TICKE	T
FILE:	5	inte	DRI	DSTI	

ON LOCATION:	16:15	4/16
START RECORDERS:_	23:35	
STOP RECORDERS:	06:06	4/17

Company BLACK STANE		Lease & Well No. 50	WAR #1
Contractor LANDMARK	REG # Co		ONE PETROLEUM LIC
	nation REAGAN	Effective Pay	ter a come of
11/10/10 01	- 1		unty RUSH State KS
	IKER	Section 1 to 100	JAKE FAHRENBRUCH
		Diamond Representative	
	Interval Tested from 35 77		ft. Total Depth 3593 ft.
	ft. Size + 0 3/4 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Packer depth	ft. Size 6 3/4 in.
Packer Depth 3577	ft. Size 6 3/4 8 in.	Packer depth	ft. Size 6 3/4 in.
Depth of Selective Zone Set			
Top Recorder Depth (Inside)	3579 ft.	Recorder Number 5591	
Bottom Recorder Depth (Outside) _	3580 ft.	Recorder Number 55%	Cap. 5000 P.S.I.
Below Straddle Recorder Depth	ft.	Recorder Number	Cap P.S.I.
Mud Type CHEMICAL Visco	sity 38	Drill Collar Length 87	ft. I.D. <u>2 1/4</u> in.
Weight 9,1 Water Lo	oss_6.4c	c. Weight Pipe Length	ft. I.D. <u>2 7/8</u> in.
Chlorides	47,000 P.P.M.	Drill Pipe Length 3462	2 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial	Number # 5 5 7 8" PK	KSTest Tool Length Z8	ft. Tool Size 3 1/2-IF in.
Did Well Flow?R	eversed Out	Anchor Length 16	ft. Size4 1/2-FHin.
Main Hole Size 7 7/8 T	ool Joint Size 44 XH in.	Surface Choke Size 1	in. Bottom Choke Size 5/8 in.
Blow: 1st Open: SLOW BUIL	DING BLOW INC	REASED TO 5 1/4"	
2nd Open: •			
Recovered 160 ft. of WM	TR MT. SDEV	< <1" il	744% WTR, 55 " MUZ
	W/ IN VAL STER	31 811,	11 mm, 30 mm
Recovered ft. of			
Recoveredft. of			8
Recovered ft. of G	AS TO PT DE	: 2 100'	Price Job
N -	TO LIV ITIL	100	Other Charges
Recovered ft. of	93,000 PP	M	JESTE B"PKRS
Remarks: CH2 DRIDES 5	12 D @ 50°F	10 (50 MRT (HOIS)
PH: 7.0			Total
	A.M.	A.M.	11505
Time Set Packer(s) 02:35	P.M. Time Started Off E	200	Maximum Temperature 11.5 °F
Initial Hydrostatic Pressure			P.S.I.
Initial Flow Period		(B) 56 F	P.S.I. to (C) 79 P.S.I.
Initial Closed In Period	Minutes 30	(D) X2 P	.S.I.
Final Flow Period	Minutes	(E)P	.S.I. to (F)P.S.I.
Final Closed In Period	Minutes	(G)P	SI. Thanles!
Final Hydrostatic Pressure			S.I. Jarol & Japrenbrus
Diamond Testing shall not be liable for damage	s of any kind to the property or personnel of nion concerning the result of any test. Tools	the one for whom a test is made or for any lo lost or damaged in the hole shall be paid for a	ss suffered or sustained, directly or indirectly, through t cost by the party for whom the test is made.

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313



TEST INFORMATION Well Name SWOB #1 **Company Name Black Stone Petroleum LLC** Formation DST #1, Reagan 3577'-3593' **Test Type** Bottom-Hole w/J,SJ, 8" Pkrs Surface Location Sec 26-18s-16w-Rush Co.-KS 1973.000 KB Elevation (SL) **Gauge Name** 5951 **Start Test Date** 2017/04/14 **Start Test Time** 23:35:00 **Final Test Date** 2017/04/17 **Final Test Time** 06:06:00 F476 Job Number Contact **Chris Leiker Site Contact Bob Bayer**

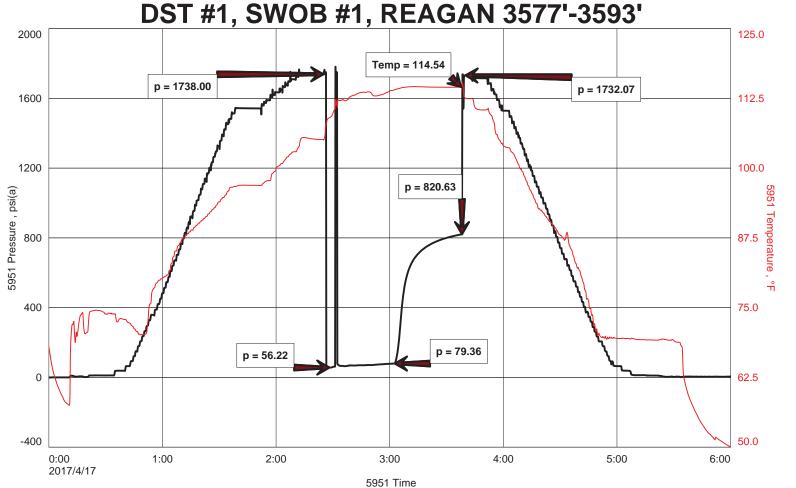
TEST RESULTS

Initial flow, slow building blow, inreased to 5.25". No final flow.

Recovered 160' of WM w/TR oil specks. <1% oil, >44% wtr, 55% mud. Gas In Pipe: ~100'

Chlorides: 93,000 PPM RW: .12 ohm @ 50 F

PH: 7.0





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

Well Name: SWOB #1 Well Id: 15-165-22144

Location: 407' FSL & 523' FWL SEC. 26 - T 18 S - R 16W

License Number: 15-165-22144 Region: RUSH CO., KS

Surface Coordinates:

Bottom Hole Coordinates:

Ground Elevation (ft): 1,962'

Logged Interval (ft): 1700

K.B. Elevation (ft): 1,971'

Total Depth (ft): 3,619'

Formation: REAGAN SAND Type of Drilling Fluid: CHEMICAL MUD

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

OPERATOR

Company: BLACKSTONE PETROLEUM LLC

Address: 363 N VASSAR ST

WICHITA, KANSAS 67208

GEOLOGIST

Name: ROBERT P. (BOB) BAYER II

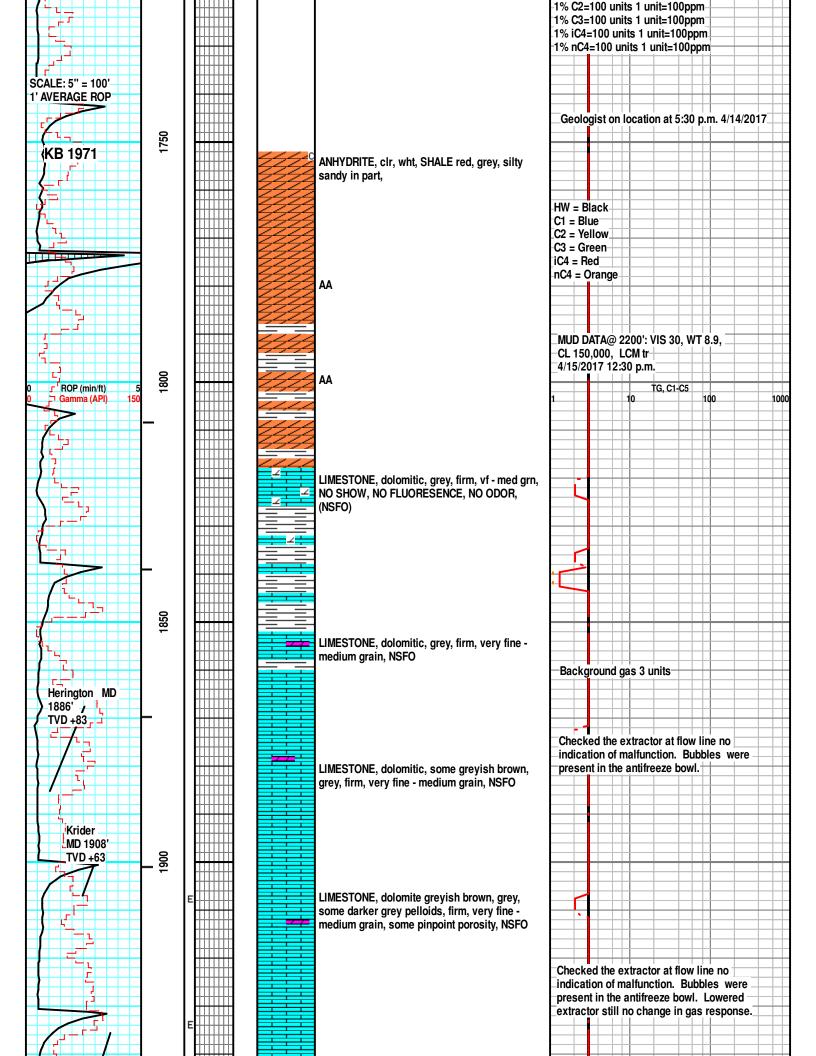
Company:

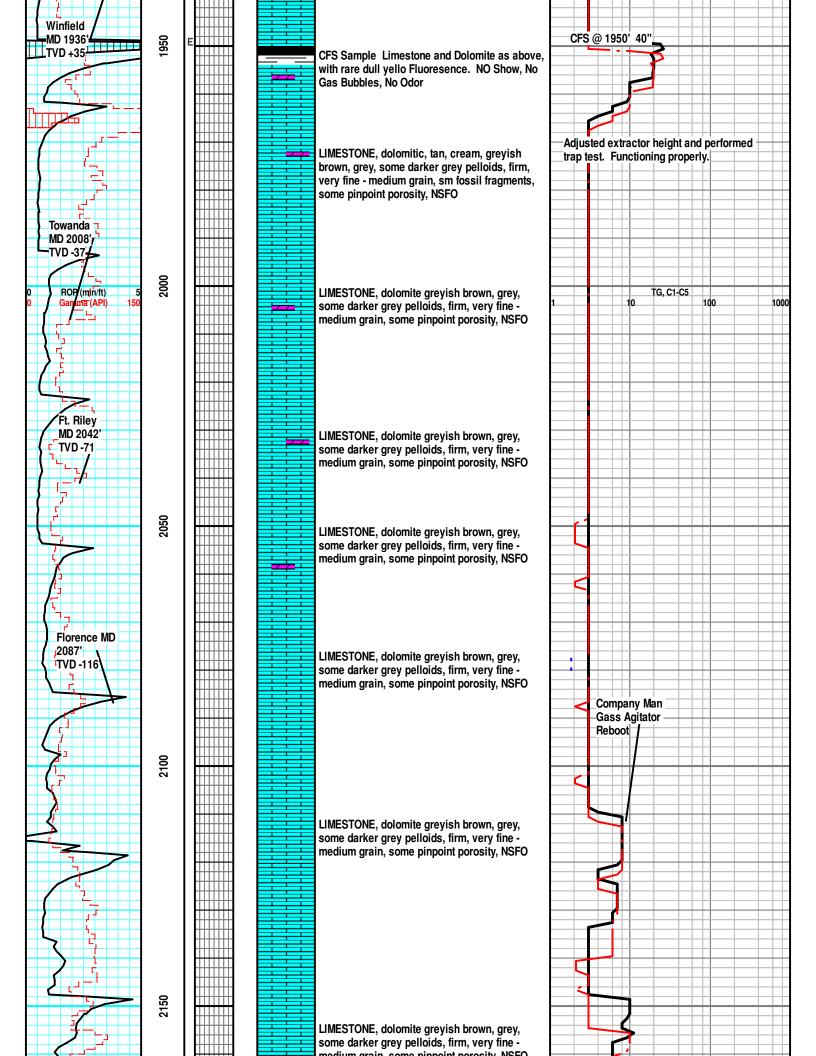
Address: 10119 W. Harvest Wichita, Kansas 67212

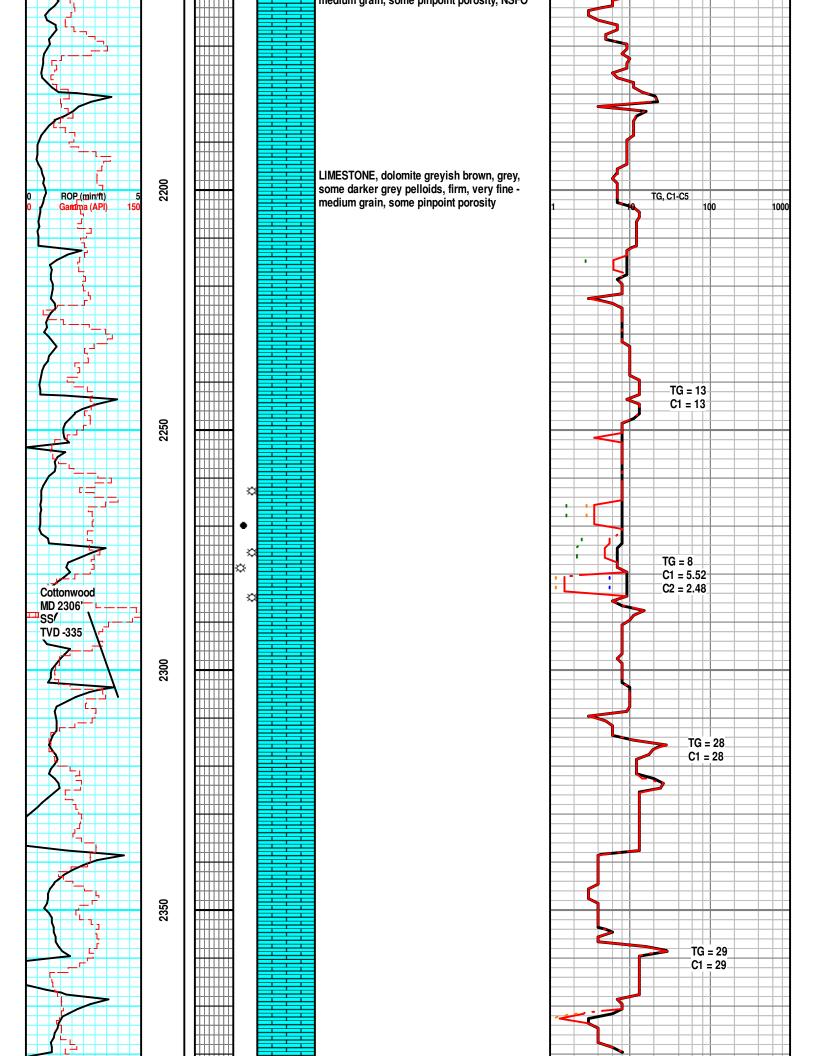
Summary

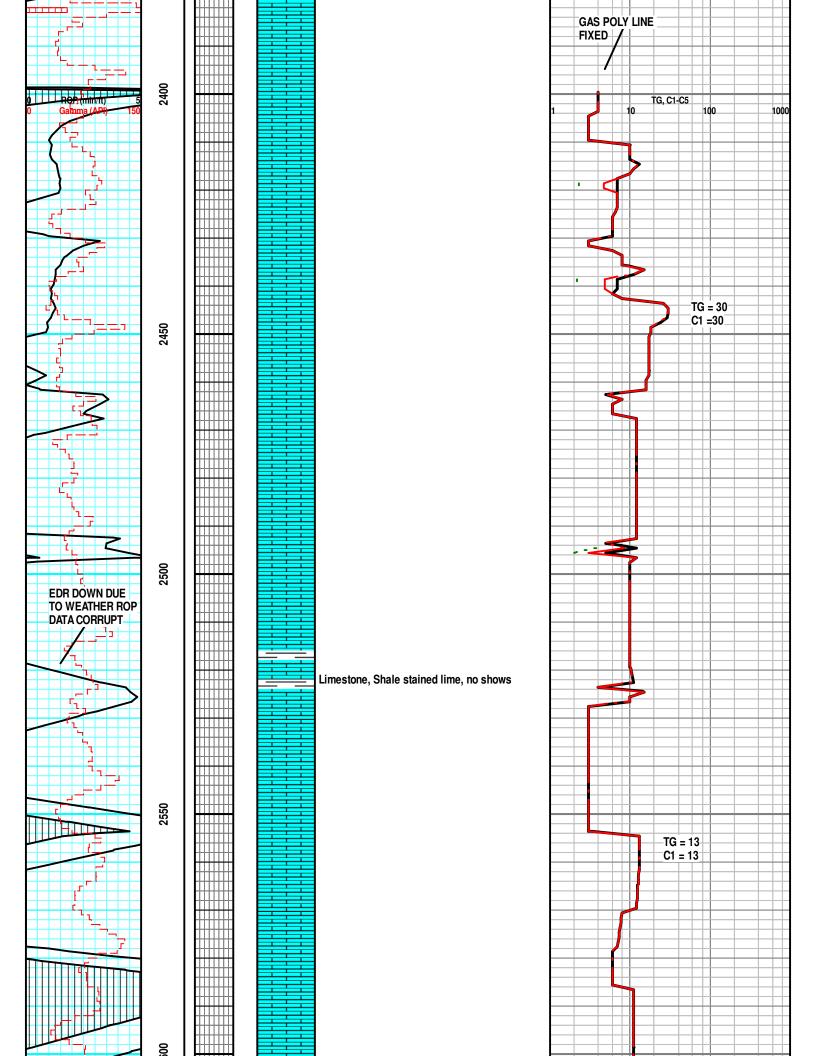
DSTs

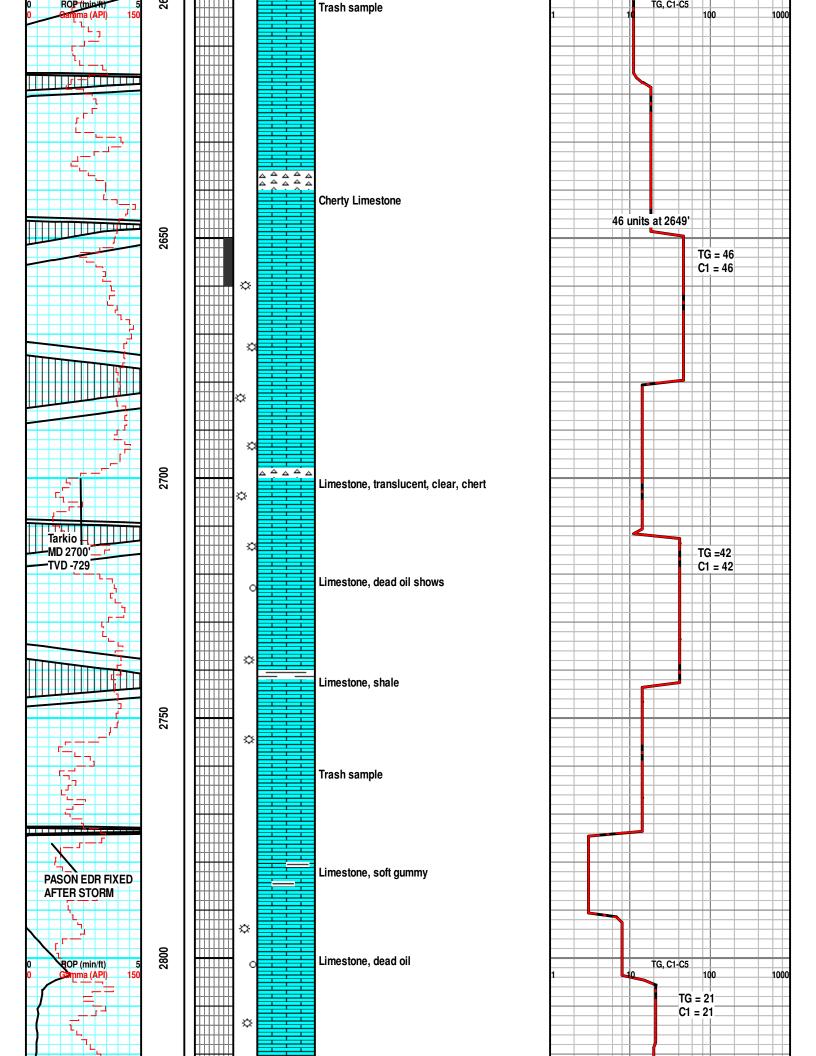
Comments **ROCK TYPES** Coal Lmst **Shcol** Anhy There was a second 1-5-2-1 **Bent** Meta Shgy Congl SItst **Brec** Dol **Mrlst** Cht Gyp Salt Ss **Shale** Till **Clyst** Igne **ACCESSORIES** Κ B **MINERAL** Kaol Cephal Coal П Α **Oolicastic** Marl Coral Dol **⊚** * 0 Oolitic Minxl Crin Gyp Θ 8 **Nodule Echin Anhy** Ls / ** Ø Arggrn Phos Fish **Mrst** _ 8 Ρ Pyr **Foram** Arg Sitstrg В \blacksquare F **Bent** Salt Fossil **Ssstrg** \ .. Ø Bit Sandy Gastro ß ¢ ... **TEXTURE Brecfrag** Silt **Oolite** Τ \triangle 0 ВЅ Ostra Calc Sil **Boundst** • S ∇ С Chalky Carb Pelec Sulphur ▲ \vee ø CX Chtdk Tuff **Pellet** CryxIn \triangle o е Chtlt **Pisolite** Earthy 4 Ø FΧ FOSSIL Ald Dol **Plant FinexIn** + ш GS Algae Strom Grainst **Feldspar** • ~ ~ I L **Ferrpel Amph** Lithogr ρ MXFerr **Belm STRINGER MicroxIn** \circ MS Glau **Bioclst Anhy** Mudst Φ PS Arg Gyp **Brach Packst** цпіщ Ψ **Bent** Hvymin **Bryozoa** Wackest **OTHER SYMBOLS** SORTING Well : **POROSITY OIL SHOW Dst** Ε • **Earthy** Well Oil • Μ • **Fenest Moderate Spotted EVENT** F Р 0 **Fracture** Poor Ques Connection × $^{\circ}$ Rft Inter Oil-gas s ROUNDING Round ≎ Moldic Gas Sidewall 0 D **Organic** Rounded Tar Ρ r **Pinpoint** Subrnd ٧ a **INTERVAL** Vuggy Subang Α **Angular** Core **Curve Track 1** TG, C1-C5 ROP (min/ft)-TG (Units) Gamma (API) --- -C1 (units) Shows C2 (units) Porosity Lithology **Geological Descriptions** Depth C3 (units) C4 (units) C5 (units) 24% 18% 12% ROP (min/ft) TG, C1-C5 100 1000 **BLACK STONE PETROLEUM** Hotwire calibration **BLACK STONE** 407' FSL & 523' FWL 2% C1=200 units SEC. 1 Unit=100ppm **PETROLEUM** 26 -T18S - R16W SWOB#1 Chromatograph calibration 1% C1=100 units 1 unit=100ppm

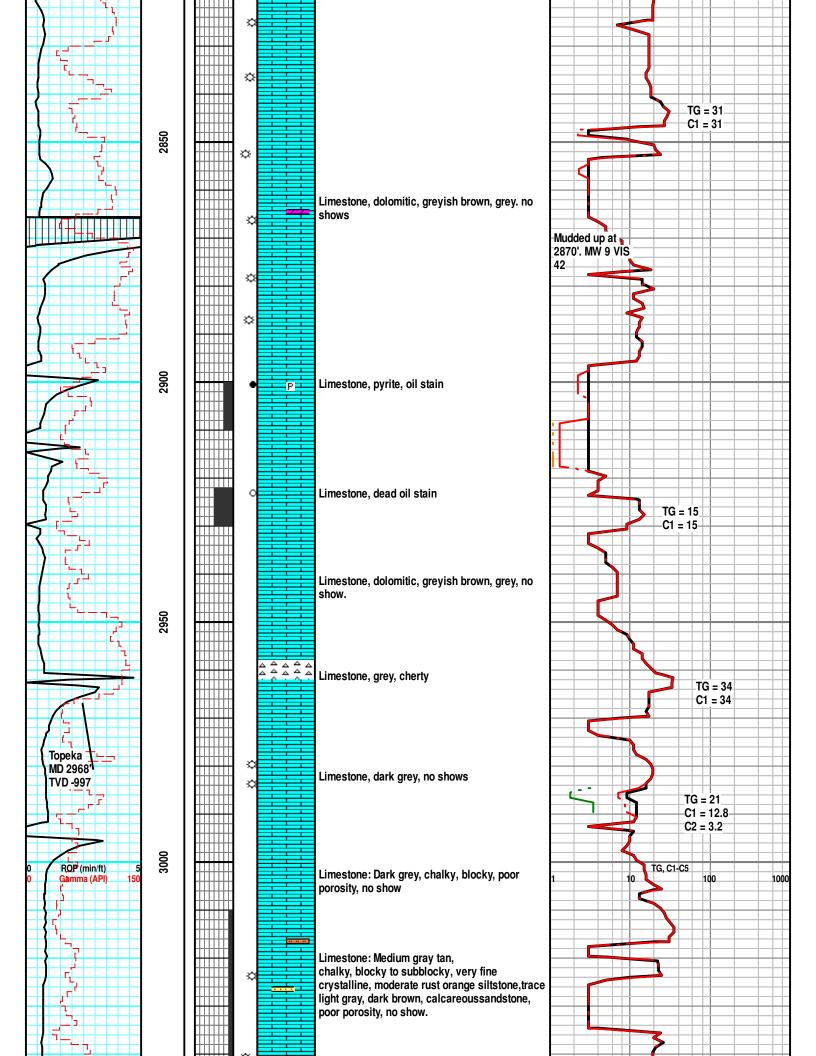


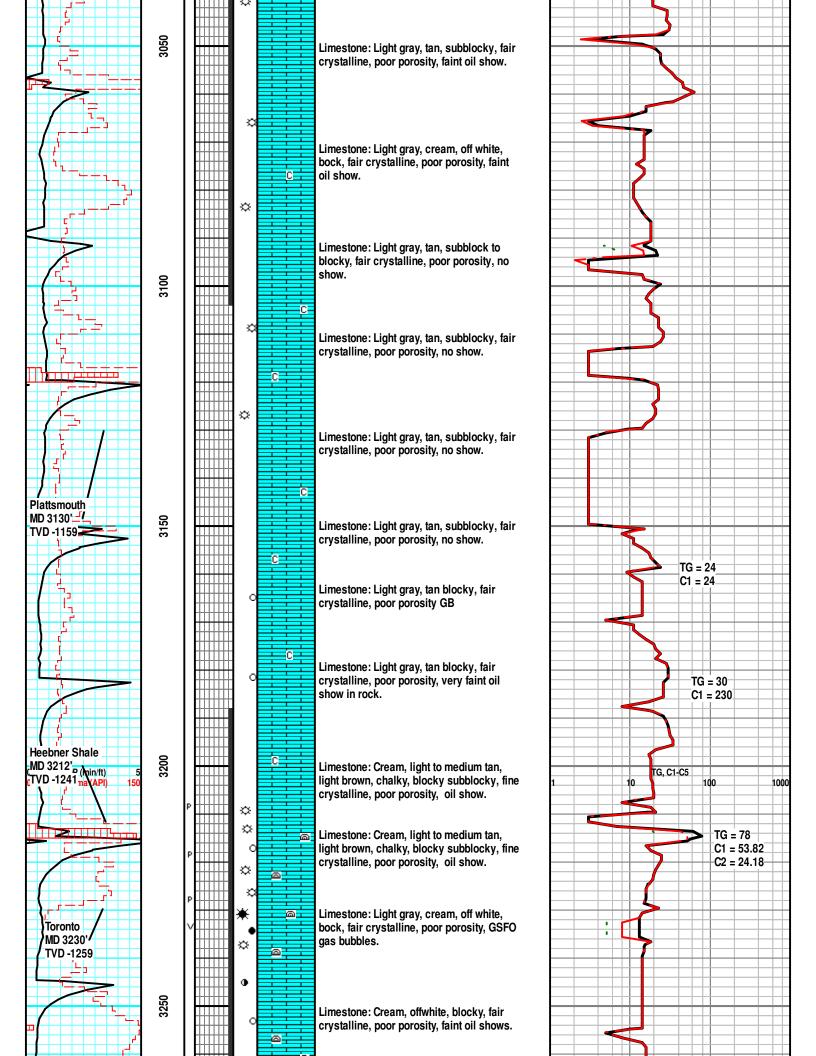


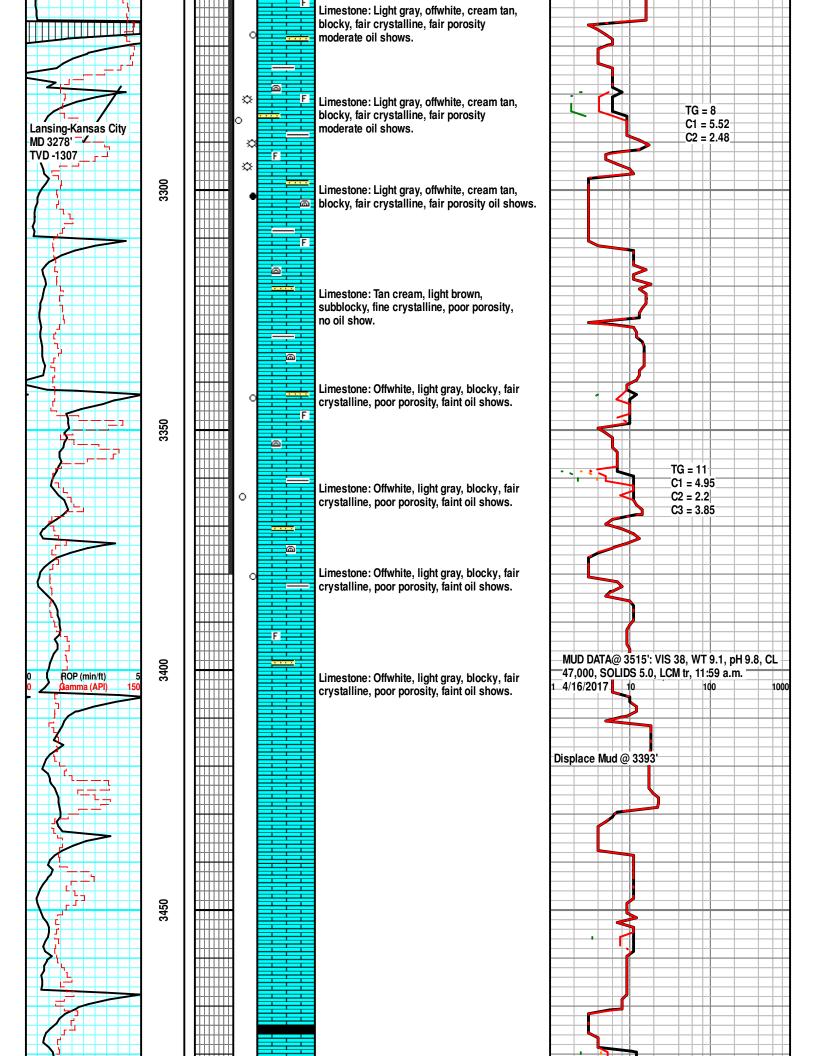


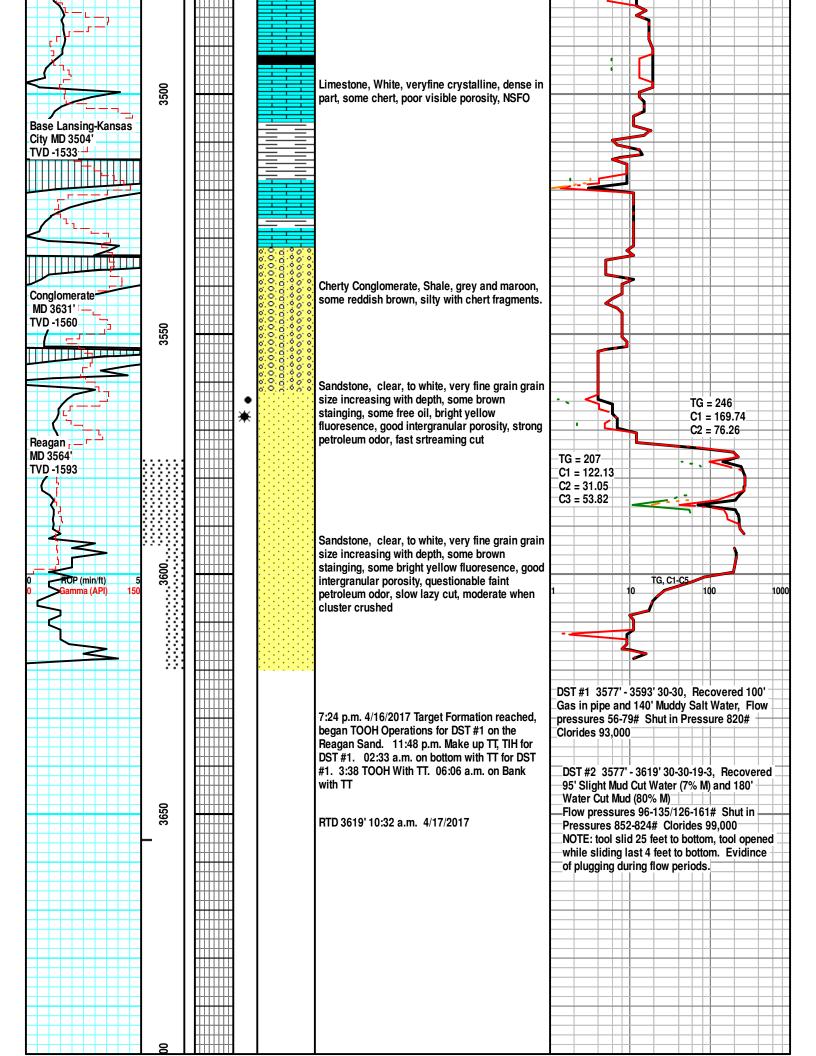












GLOBAL OIL FIELD SERVICES, LLC

992

PEMIT TO	Russell, KS			Westername w			177	BSTART	JOB FINI	SHPA
DATE 4-18-1	SEC.	TWP.	RANGE	l c	ALLED OUT	ON LOC		OUNTY	18125	<i>U</i> .
PATE 4 /2	WELL#		OCATION	ALBERT	ν <					
OLD OR NEW (AAAAION	FJCOSICI.						
OLD OKCION										
CONTRACTOR L		DRIVERNO	_ R16+	6	OWNER					
TYPE OF JOB Co- HOLE SIZE	e - Janes	T.D.		The fall live is	CEMENT	RDERED_1	5 SY (176			
CASING SIZE 7" TUBING SIZE	231b.	DEPT DEPT	H 3614.	14	AMOUNTE	/50 =	SK GSB			
DRILL PIPE		DEPT	u							
TOOL DV PRES. MAX			H <u>2 394'</u> MUM		COMMON			@		
MEAS. LINE			JOINT 42	85"	POZMIX GEL			@		
CEMENT LEFT IN CS PERFS	G. 42.85				CHLORIDE			@		
DISPLACEMENT 14					ASC			Ø ====		
	EQUIPMENT				25 (25 (25 (25 (25 (25 (25 (25 (25 (25 (. e		
	EMENTER BR							- @		
# 4/7 HI BULK TRUCK	ELPER JA SOM		ALL AND STATE					_ @		Zaja,
	IVER KRIS						94.8	_ (a) _ (a)		
BULK TRUCK	IVER Tom			s da				_ @		
	IVER IOM				HANDLIN	G		_ @		
					MILEAGE				TOTAL	
						1 150000 1500000 1 5000	200	200 - 2	The second second	
	PEMARK	· S	Roman Alas							
MIX 75 5x /1T	REMARK	S: & B580	_ Pump	PLUB						
MIX 75 5X LIT	REMARK 5 + 150 3 HZO, LAN	S: 14 G580 10 O 150	_ Pump	PLUG RELÆMSL				ERVICE		
MIX 75 5X LIT JITH 140, 4 BBC LESSURE, DRY,	REMARK 5 + 150 5 HZO, CAY OPÉ N DU	S: bk G5BC boc Tooc	- Pump 20 PS1,	PLUS RELAMSE	Diper		•	ERVICE		
MIX 755X LIT NITH 140, h BBC LESSURE, DRY,	REMARK E + 150 3 H20, CAN OPEN ON	S: ix G580 o O 150 Tool	Pump no Psi,	PLUS RELÆMSE		JCK CHAR	GE			
MIX 75 5X LIT NITH 140, HBBC LESSULE, DRY,	REMARK 6 + ISO 5 HZO LOY OPE N ON	S: SK G580 O ISO TOOL	- Pump ob PSI,	PLUB RELAMI	PUMP TR EXTRA FO	OCK CHAR OOTAGE—	GF_			
MIX 75 5X LIT JITH 140, H BBL LESSURE, DRY,	REMARK & + ISO S H2O, CAN OPEN OF	S: 5k G5BC 6 O 150	fum/	PLUB RELAKI	PUMPTRI EXTRA FO MILEAGE	OCK CHAR OOTAGE	GE			
MIX 755X LIT 1174 140, 48BC 1ESSURE, DRY	REMARK & + 150 3 HZO / CAY OPE N DY	S: sk G580 o@150 Took	Pump do PSI,	PLUB RELEASL	PUMPTRI EXTRA FO MILEAGE	OCK CHAR OOTAGE—	GE	<u> </u>		
	B + ISO B HED LAY OPE N DY	6x 6580	Pumpo PSI,	PLUS	PUMPTRI EXTRA FO MILEAGE	OCK CHAR OOTAGE	GE			
	B + ISO B HED LAY OPE N DY	6x 6580	Pum/	PLUS	PUMPTRI EXTRA FO MILEAGE	OCK CHAR OOTAGE	GE			
GE TO: BLACK	B + ISO B HED LAY OPE N DY	6x 6580	Pum/	PLUS	PUMPTRI EXTRA FO MILEAGE	OCK CHAR OOTAGE	GE		TOT	AL
GE TO: BLACK	8 + 150 5 H20 / 20 7 OPE N DY	0 € 580 0 € 150 160C	- fum/	PLUB	PUMPTRI EXTRA FO MILEAGE	JCK CHAR DOTAGE 	GE		TOI	
GE TO: BLACK	8 + 150 5 H20 / 20 7 OPE N DY	6x 6580	Pump po PSI,	PLUS	PUMPTRI EXTRA FO MILEAGE	JCK CHAR DOTAGE 	GE		TOI	
GE TO: BLACK	8 + 150 5 H20 / 20 7 OPE N DY	0 € 580 0 € 150 160C	- fumi	PLUB	PUMPTRI EXTRA FO MILEAGE	JCK CHAR DOTAGE 	GE		TOI	
GE TO: BLACK T STA	#20 1 40 3 00 00 00 00 00 00 00 00 00 00 00 00	0 € 580 0 € 150 160C	Pum/ po Psi,	PLUS	PUMPTRI EXTRA FO MILEAGE	JCK CHAR DOTAGE 	GE		TOI	
I Oil Field Servi	E + ISO E HEO J LOY OPE J LOY TE Ces, LLC	2 (18)			PUMPTRI EXTRA FO MILEAGE	JCK CHAR DOTAGE 	GE		TOT	
GE TO: BLACK STA I Oil Field Servi the hereby requested	TECes, LLC	ME ZIP	quipmen	t and	PUMPTRI EXTRA FO MILEAGE	JCK CHAR DOTAGE 	GE		TOT	
I Oil Field Service hereby requested cementer and help	TE LLC it to rent ceer(s) to assist	EX G S BC B C 15°C B C	equipmen	t and tor to	PUMPTRI EXTRA FO MILEAGE	JCK CHAR DOTAGE 	GE	- @ - @ - @ - @ - @ - @ - @ - @ - @ - @	TOI	
I Oil Field Service hereby requested the sis listed. The arrivision of owner are	TE————————————————————————————————————	menting est owner owas done otractor. I	equipment contracto satisfa	t and tor to iction d and	PUMPTRI EXTRA FO MILEAGE	JCK CHAR DOTAGE 	GE	FLOAT	FQUIPM	
I Oil Field Service hereby requested cernenter and help as is listed. The arvision of owner and the "GENERA"	TE————————————————————————————————————	menting est owner owas done otractor. I	equipment contracto satisfa	t and tor to action d and	PUMPTRI EXTRA FO MILEAGE	JCK CHAR DOTAGE 	GE	FLOAT	TOI	
GE TO: BLACK I Oil Field Service hereby requested cermenter and help as is listed. The arvision of owner and the "GENERA"	TE————————————————————————————————————	menting est owner owas done otractor. I	equipment contracto satisfa	t and tor to action d and	PUMPTRI EXTRA FO MILEAGE	JCK CHAR DOTAGE 	GE	FLOAT	TOT	IEN
I Oil Field Service hereby requested cementer and help as is listed. The activities of owner and the "GENERA he reverse side.	TE SHOW TE SHO	ME G S B C S C S C S C S C S C S C S C S C S	equipmen r contrac to satisfa have read	t and tor to action d and DNS"	PUMPTRI EXTRA FO MILEAGE	JCK CHAR DOTAGE 	GE	FLOAT	TOT	IEN'
I Oil Field Service hereby requested cementer and help as is listed. The activities of owner and the "GENERA he reverse side.	TE SHOW TE SHO	ME G S B C S C S C S C S C S C S C S C S C S	equipmen r contrac to satisfa have read	t and tor to action d and DNS.	PUMP TRI EXTRA FO MILEAGE MANIFOI	P	GE	FLOAT	TOT	IEN'
STA I Oil Field Service hereby requested cementer and help as is listed. The activition of owner and the "GENERA the reverse side.	TE SHOW TE SHO	ME G S B C S C S C S C S C S C S C S C S C S	equipmen r contrac to satisfa have read	t and tor to action d and DNS.	PUMP TRI EXTRA FO MILEAGE MANIFOI	JCK CHAR DOTAGE 	GE	FLOAT	TOT	IEN'
STA I Oil Field Service hereby requested cementer and help as is listed. The activition of owner and the "GENERA the reverse side.	TE SHOW TE SHO	ME G S B C S C S C S C S C S C S C S C S C S	equipmen r contrac to satisfa have read	t and tor to action d and DNS.	PUMP TRI EXTRA FO MILEAGE MANIPOI	PAX (If An	GE	FLOAT	TOT	
MIX 75 5X LITE JUTH 140, h BBC RESTURE, Day, of STA	TE SHOW TE SHO	ME G S B C S C S C S C S C S C S C S C S C S	equipmen r contrac to satisfa have read	t and tor to action d and DNS.	PUMP TRI EXTRA FO MILEAGE MANIPOI	P	GE	FLOAT	TOT	IEN'



TREATMENT REPORT

									Acid Stage N	10.	
	A (4.2./2047				Type Treatm		nt.	Type Fluid	Sand Size	Poun	ds of Sand
Date _	4/13/201/	District G.B	F.C	D. No. <u>C45095</u>	Bkdown		Bbl./Gal.				
	ny Blackstone me & No. SWO						Bbl./Gal.				
Location							Bbl./Gal.	-			
County	Rush		Field				Bbl./Gal.				
County	1\u3ii		State KS		Flush		Bbl./Gal.		· · · · · · · · · · · · · · · · · · ·		
	. 10.2	1 AH			Treated from	<u> </u>		ft. to	ft.	No. ft.	0
Casing:	Size	/4" Type &	Wt	Set at	ft. from			ft, to		No. ft.	0
Formatio			Perf.	to	from			ft. to	ft.	No. ft.	0
Formatic	on:			to	Actual Volum	e of Oil / Wa	ter to Load H	ole:			Bbi./Gai
Formatio	***********		Perf.	to							
Liner:	SizeType	& Wt	Top at f	t. Bottom at	ft. Pump Trucks.	No. Used	d: Std.	365 Sp.		Twin	
	Cemented: Yes	Perforate	ed from	ft. to	ft. Auxiliary Equi	pment		 '	327	- '	
Tubing:	Size & Wt.		Swung at		ft. Personnel Na		an-Greg	· · · · · · · · · · · · · · · · · · ·			
	Perforated	from	ft. to		ft. Auxiliary Tools						-
					Plugging or Se	aling Materia	ils: Type			·····	· · · · · · · · · · · · · · · · · · ·
Open Hol	e Size14 3	B/4" T.D.	ft.	P.B. to	_ft.				Gals.		lb.
											10.
Company	Representative		Landmark	Drilling	Treater			Nathan	W		
TIME	PRES	SSURES	Total Fluid Pumped				-				
a.m./p.m.	Tubing	Casing	Total Fluid Pumped				REMARKS				
10:00		10 3/4"		On Location.	Rig pulling o	drill pipe	<u> </u>				
						1-1-	-				
				Surface-375'	·				-		
						· · · · · · · · · · · · · · · · · · ·			·		
				Break circulati	on with mu	d p			···		
				Di cuit circulati	On with mu	a pump.			······································		
				Mix 275cks 60	//One= 20/=	-1 20/ 0	1 .				
				Mix 275sks 60,	/40poz 2%g	er 3% C	alcium (Chloride at	15.0#/gal.		
2:30				Diaminas: 14 (24 75111 .						
2.00				Displace with 3	34.75bbis at	5bpm-3	300# Ci	rculated ce	ement to si	urface	
						····					
				Thank You!					· · · · · · · · · · · · · · · · · · ·		
											
				Nathan W.							
											-
						· · · · · · · · · · · · · · · · · · ·					

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	-										
											
	1										



DIAMOND TESTING P.O. Box 157 HOISINGTON, KANSAS 67544 (800) 542-7313

TIME OFF: 20:03

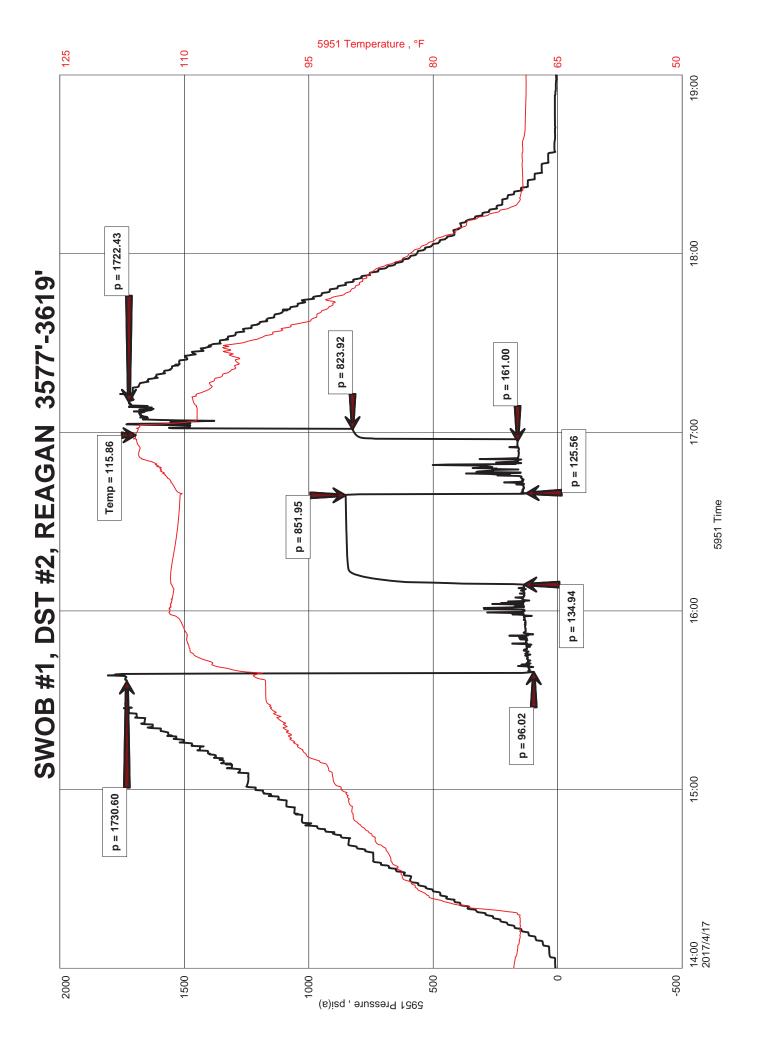
TIME ON: 13:35

DRILL-STEM TEST TICKET FILE: SWOB1DST2

Company Black Stone Petroleun	n LLC		_Lease & Well No.S	WOB #1			
Contractor Landmark Rig #6		Charge to Black Stone Petroleum LLC					
Elevation 1973' KB Formation	Reagan		_Effective Pay		_Ft. Ticket	No. <u>F477</u>	7
Date 4/17/17 Sec.26	Twp	18 s R	ange1	6 W CountyRus	sh	State	KANSAS
Test Approved By Chris Leiker			_ Diamond Representati	ve Jake Fahr	enbruch		
Formation Test No. 2 Inter-	val Tested from_	35	77_ft. to	3619ft. Total	Depth	3	619 ft.
Packer Depth 3572 8" ft. Siz	ze6 3/4	in.	Packer depth		ft. Size_	6 3/4	in.
Packer Depth 3577 8" ft. Siz	ze6 3/4	in.	Packer depth		_ft. Size	6 3/4	in.
Depth of Selective Zone Set							
Top Recorder Depth (Inside)	3	579 _{ft.}	Recorder Number_	5951	Сар	5000	P.S.I.
Bottom Recorder Depth (Outside)	3	580 ft.	Recorder Number_	5586	Сар	5000	_P.S.I.
Below Straddle Recorder Depth	-	ft.	Recorder Number_				_ P.S.I.
Mud Type CHEMICAL Viscosity_	38		Drill Collar Length_	87 _f	t. I.D	2 1/4	in.
Weight 9.1 Water Loss	6.4	cc.	Weight Pipe Length	0	ft. I.D	2 7/8	iin
Chlorides	17,000	P.P.M.	Drill Pipe Length	3,462	t. I.D	3 1/2	inin
Jars: Make STERLING Serial Number			Test Tool Length	28	t. Tool Siz	e_ 3 1/2	-IFin
Did Well Flow?Reverse	ed Out		Anchor Length	42	ft. Size	4 1/2	P-FHin
Main Hole Size 7 7/8 Tool Jo	int Size 4 1/2	2 XH in.				Choke Size	e_ 5/8 _in
Blow: 1st Open:Initial blow of 4", ir	reased to	9".					
^{2nd Open:} Weak blow, inreas							
Recovered 95 ft. of SMCW		% wtr, 7	% mud				
Recovered 180 ft. of WCM	20%	6 wtr, 8	0% mud				
Recoveredft. of No Gas In	Pipe						
Recoveredft. of TOTAL RE	COVERED	FLUID	: 275'				
Recoveredft. of				F	Price Job		
Recoveredft. of				(Other Charge	es	
Remarks: CHLORIDES: 99,000 F	PPM			1	nsurance		
RW: .08 ohm @	2 70 F						
PH: 7.0					otal		
	M. M. Time Sta	arted Off Bo	ttom <u>5:01 PM</u>	A.M. P.M. Maxir	num Tempe	rature 116	3 F
Initial Hydrostatic Pressure			(A)	1731 _{P.S.I.}			
Initial Flow Period	Minutes	30	(B)	96 P.S.I. to (C)	135 _P	.S.I.
Initial Closed In Period	Minutes	30	(D)	852 _{P.S.I.}			
Final Flow Period	Minutes	19	(E)	126 P.S.I. to (I	=)	161 _{P.}	S.I.
Final Closed In Period	Minutes	3	(G)	824 P.S.I.			
Final Hydrostatic Pressure			(H)	1722 _{P.S.I.}			

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

C:\Users\Diamond Testing 5\Desktop\swob1dst2 17-Apr-17 Ver



DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544 (800) 542-7313

DRILL-STEM TEST TICKET

FILE SWORIDSTO

ON LOCATION:	12:00
START RECORDERS	13:35
STOP RECORDERS:	20:03

A FILE. SIVE	010012	, # 1
	Lease & Well No. 5 WOB	
Contractor LANDMARK DRIG. RIG 56	Charge to BLACK STON	E PETROLEUM LIC
Elevation 1973 KB Formation REAGAN	_Effective Pay	Ft. Ticket NoF477
Date 4/17/17 Sec. 26 Twp. 188 Ra	ange 16W County	RUSH State KS
Test Approved By CHRIG LEIKER	Diamond Representative	JAKE FAHRENBRUCH
Formation Test No. 2 Interval Tested from 3577	ft. to 36/9 ft. To	tal Depthft.
Packer Depth 3572 8" ft. Size 6 3/4 in.	Packer depth	ft. Size6 3/4in.
Packer Depth 3577 8 ft. Size 6 3/4 in.	Packer depth	ft. Size6_3/4in.
Depth of Selective Zone Set		
Top Recorder Depth (Inside) 35 79 ft.	Recorder Number 5957	Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3580 ft.	Recorder Number 5586	Cap
Below Straddle Recorder Depthft.	Recorder Number	CapP.S.I.
Mud Type CHEMICAL Viscosity 38	Drill Collar Length 97	ft. I.D. <u>2 1/4</u> in.
Weight 9.1 Water Loss 6.4 cc.	Weight Pipe Length	ft. I.D2 7/8 in.
Chlorides 47,000 P.P.M.	Drill Pipe Length 3462	ft. I.Din.
Jars: Make STERLING Serial Number 5, J, J, 8" Pk/5		_ft. Tool Size <u>3 1/2-IF</u> in.
Did Well Flow?Reversed Out	Anchor Length 42	ft. Size4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4/2 XH in.	Surface Choke Size 1	in. Bottom Choke Size 5/8 in.
Blow: 1st Open: Took SLID TO BOROW 25, Took open Blow: 1st Open: Took SLID TO BOROW OF 4" TWO GREET TO TO B	and while stiding last a	which.
2nd Open: Weak 6low increased to 5"	,	
	WTR, 7"mup	
6.0	WIR 80% mis	
Recovered ft. of 76TAL RECOVERED	FLUID: 2751	
Recovered ft. of NO GAS IN PT	PF-	
	PW	Price Job
Recovered ft. of RW \$,08 JL @ 70	PA: 7.0	Other Charges
Remarks: Tast wated lorge @ 40 over string weigh	t tripped gars.	J. JNT 8"PKRS
))	48 MRT (GB)
		Total
Time Set Packer(s) 3:39 P.M. Time Started Off Bo	ttom5:01 (P.M.) Ma	aximum Temperature 116 F
Initial Hydrostatic Pressure	(A) 1731 P.S.I.	
Initial Flow PeriodMinutes 30		to (C) 135 P.S.I.
Initial Closed In PeriodMinutes 30	(D) 852 P.S.I.	- 11
Final Flow PeriodMinutes		o (F) /4/ P.S.I.
Final Closed In PeriodMinutes3	(G) 824 P.S.I.	
Final Hydrostatic Pressure	(H) 1722 P.S.I.	

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313



TEST INFORMATION **Well Name** SWOB #1 **Company Name Black Stone Petroleum LLC** Formation DST #2, Reagan 3577'-3619' Bottom-Hole w/Jars, S Joint, 8" Packers **Test Type** Sec 26-18s-16w-Rush Co.-KS **Surface Location** 1973.000 KB Elevation (SL) **Gauge Name** 5951 **Start Test Date** 2017/04/17 **Start Test Time** 13:35:00 **Final Test Date** 2017/04/17 **Final Test Time** 20:03:00 F477 **Job Number Chris Leiker** Contact

Bob Bayer

TEST RESULTS

Initial flow, tool slid 25' to bottom. Tool opened while sliding the last 4' to bottom. Initial blow of 4" inreased to 9".

Final flow, weak blow increased to 5".

Site Contact

TOTAL RECOVERED FLUID: 275'

95' SWCM 93% wtr, 7% mud 180' WCM 20% wtr, 80% mud

---- No Gas In Pipe

---- Chlorides: 99,000 PPM ---- RW: .08 ohm @ 70 F

---- PH: 7.0

SWOB #1, DST #2, REAGAN 3577'-3619' 2000 125 Temp = 115.86p = 1730.60p = 1722.431500 110 p = 851.955951 Pressure , psi(a)
00
00
00 p = 823.9280 p = 161.00p = 96.020 65 p = 134.94 p = 125.56-500 50 14:00 19:00 15:00 16:00 17:00 18:00 2017/4/17

5951 Time

Cid & Cement

Company Blackstone
Well Name & No. SWOB #1

Rush

ocation

ounty

asing:

ormation:

Fubing: Size & Wt.

Open Hole Size

Date 4/18/2017 District G.B.

Type & Wt.

Perforated from

Cemented: Yes Perforated from

TREATMENT REPORT

ft.

F.O. No. C45102

Bottom at

ft. P.B. to

Field

State

Type & Wt.

T.D.

23#

Perf.

Perf.

Swung at

Top at

				Acid Stage No.	_	
Type Treatment: Amt.		Туре	Fluid	Sand Size	Pound	s of Sand
Bkdown	Bbi./Gal.					
	Bbl./Gal.			-	_	-
	Bbl./Gal.					
	Bbl./Gal.					
Flush	Bbl./Gal.					
Treated from		ft. to		ft.	No. ft.	0
ft. from		ft. to		ft.	No. ft.	0
from		ft. to		ft.	No. ft.	0
Actual Volume of Oil / Water	to Load He	ole:				Bbl./Gal.
ft. Pump Trucks. No. Used:	Std.	365	Sp.		Twin	199
ft. Auxiliary Equipment			360/	310/327		
ft. Personnel Nathan-Aaro	n-Greg-E	ddy				
ft. Auxiliary Tools						

Gals.

Company Representative Gerald							
TIME	Tubing	Casing	Total Fluid Pumped	REMARKS			
a.m./p.m. 2:00am	Tubing	7"	4/18/2017	On Location to run float equipment. Rig running Drill pipe in to circulate			
2:00am		1	4/10/2017	and lay down.			
		+					
7:30	77			Rig started laying down drill pipe.			
12:40				Start casing in the hole with float equipment. Welder could not cut			
				surface pipe off due to water flowing. Gerald said to go ahead and run pip			
				Casing taged bottom approximately 20' high. Hook up to mud pump and			
		10000		circulate to bottom.			
4:15		177		Rig up Global Cementing to cement bottom stage.			
		100	1000000	7" set at 3615' Centralizers-1,3,5,7,9,11,15,18,29,30			
	. 14			Baffle-3572' Baskets-2,27			
HILL			ALC: YE CHES	DV Tool-2433'			
	31.	100					
	ALC: U	The State		Circulate after bottom stage for 2.5 hours. Mix 300sks 65/35poz 6%gel			
				followed by 200sks 60/40poz 2%gel 12% salt .75%C41p .75%C47a			
				Displace with 95.6bbls at 6bpm-700# Plug landed at 1500# Released			
	a diguest a			pressure. Still had water flowing out of surface.			
11:00				Call Kelso Well Service to cut off pipe and weld 7" to 10 3/4" and Gressel			
				Tank truck and Outlaw Tank Service. Gerald called out additional welder			
12:00			4/19/2017	and Chris called out additional tank truck. Welders cut holes in surface to			
				let water out. Tank trucks sucked water out while they caped flow line			
				and plated the top of surface pipe. Once the top of surface and flow line			
				was plated we put valves on surface and pumped 300sks Common 3% C.C.			
5:45	HET STATE STATE			between surface and 7" casing and shut well in. Welders stayed on location			
				to make sure we had no leaks.			

Plugging or Sealing Materials: