Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1232625

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 30606
Name: Murfin Drilling Co., Inc.
Address 1: 250 N WATER STE 300
Address 2:
City: WICHITA State: KS Zip: 67202 + 1216
Contact Person: Tom Melland
Phone: (316) 267-3241
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Charles Schmaltz
Purchaser:

Designate Type of Completion:

☐ New Well ☐ Re-Entry ☑ Workover

☑ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☐ Temp. Abd.
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:

Operator: F&M Oil Company
Well Name: DSA A 1
Original Comp. Date: 09/08/1983 Original Total Depth: 3780

☑ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

08/22/2014	08/23/2014	10/17/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-185-21733-00-01
Spot Description:
S2 - SE - NW - SW Sec. 3 Twp. 23 S. R. 12 ☐ East ☑ West
1550 Feet from ☐ North / ☑ South Line of Section
990 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Stafford
Lease Name: DSA OWWO Well #: 1-3
Field Name:
Producing Formation: Viola
Elevation: Ground: 1835 Kelly Bushing: 1846
Total Vertical Depth: 3900 Plug Back Total Depth: 3830
Amount of Surface Pipe Set and Cemented at: 294 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: ppm Fluid volume: bbls
Dewatering method used: Haul Off Pit

Location of fluid disposal if hauled offsite:

Operator Name: Murfin Drilling Company
Lease Name: Pound License #: 30606
Quarter SE Sec. 34 Twp. 22 S. R. 12 ☐ East ☑ West
County: Stafford Permit #: 15-185-21733

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: 11/21/2014
☑ **Confidential Release Date:** 11/21/2016
☐ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 11/24/2014

[redacted] 1232625

Operator Name: Murfin Drilling Co., Inc. Lease Name: DSA OWWO Well #: 1-3

Sec. 3 Twp. 23 S. R. 12 ☐ East ☑ West County: Stafford

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

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

Drill Stem Tests Taken ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☐ Yes ☑ No

List All E. Logs Run:

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name: See Attachment | Top | Datum

CASING RECORD ☑ New ☐ Used
Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.2500	8.6250	23	294	Common	200	2% gel 3 % CC
Production	7.8750	5.5000	15.5	3874	AA2	175	10% salt, 3% CFR, 5% gilsonite

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: ☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
	-			
	-			

Did you perform a hydraulic fracturing treatment on this well? ☑ Yes ☐ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☑ Yes ☐ No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☑ No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
2	3607-3620 Viola	Treat with 3100 gals 10% MIRA and 2500 gal 10% NEFE. Frac with 8957 bbls of slickwater and 148,700 lbs	
1	3621-3654 Viola		

TUBING RECORD: Size: 2.8750 Set At: 3571 Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 10/24/2014

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	4		203		

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION: ☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)*

PRODUCTION INTERVAL: 3607-3654

Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	DSA OWWO 1-3
Doc ID	1232625

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	12.2500	8.6250	23	294	Common	200	2% gel 3 % CC
Production	7.8750	5.5000	15.5	3874	AA2	175	10% salt, 3% CFR, 5% gilsonite

CELLS WITH BLUE BACKGROUND ARE THE ONLY CELLS TO BE EDITED*

Fracture Start Date/Time:	10/6/14 10:42
Fracture End Date/Time:	10/6/14 13:04
State:	Kansas
County:	Stafford
API Number:	15-185-21733-0001 *(e.g. XX-XXX-XXXXX-0000)*
Operator Name:	Murfin Drilling Co, Inc.
Well Name:	DSA OWWO 1-3
Federal Well:	
Longitude:	-98.6338243
Latitude:	38.0756144
Long/Lat Projection:	NAD27
True Vertical Depth (TVD):	0'
Total Clean Fluid Volume* (gal):	375,984

Additive	*Specific Gravity*	*Additive Quantity*	*Mass (lbs)*	
Water	1.00	375,984	*3,137,586*	gal
Sand (Proppant)	2.65	148,700	*148,700*	lb
Plexcide B7	1.33	20	*222*	gal
Plexcide B7	1.33	20	*222*	gal
Plexgel Breaker XPA	1.03	72	*619*	gal
Plexset 730	0.90	56	*421*	gal
Plexset 730	0.90	56	*421*	gal
Plexsurf 580 ME	0.95	93	*737*	gal
Plexsurf 580 ME	0.95	93	*737*	gal
Plexslick 957	1.11	259	*2,399*	gal
Claymax	1.09	185	*1,683*	gal
Plexgel 907L-EB	1.04	0	*0*	gal
Plexgel 907L-EB	1.04	0	*0*	gal
Plexgel 907L-EB	1.04	0	*0*	gal
Plexgel 907L-EB	1.04	0	*0*	gal
Plexgel 907L-EB	1.04	0	*0*	gal
Plexgel Breaker 10L	1.10	0	*0*	gal
				gal
				gal
		Total Slurry Mass (Lbs)		
		3,293,747		

Ingredients Section:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Mass per Component (LBS)	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Operator	Carrier/Base Fluid	Water	7732-18-5	100.00%	*3,137,586*	*95.25888%*	
Sand (Proppant)	Uniman	Proppant	Crystalline Silica in the form of Quartz	14808-60-7 / 238-878-4	99.90%	*148,551*	*4.51010%*	
Plexcide B7	Chemplex	Biocide	Sodium Hydroxide	1310-73-2	4.99%	*11*	*0.00034%*	
Plexcide B7	Chemplex	Biocide	Alkaline Bromide Salts (non-hazardous)	NA	0.00%	*0*	*0.00000%*	
Plexgel Breaker XPA	Chemplex	Slickwater Breaker	Hydrogen Peroxide	7722-84-1	7.00%	*43*	*0.00132%*	
Plexset 730	Chemplex	Activator	Methanol	67-56-1	50.00%	*210*	*0.00638%*	
Plexset 730	Chemplex	Activator	Alcohol Ethoxylates	Mixture	60.00%	*252*	*0.00766%*	
Plexsurf 580 ME	Chemplex	Product Stabilizer	Methyl Alcohol	67-56-1	10.00%	*74*	*0.00224%*	
Plexsurf 580 ME	Chemplex	Product Stabilizer	2-Butoxyethanol	111-76-2	50.00%	*369*	*0.01119%*	
Plexslick 957	Chemplex	Friction Reducer	Petroleum Hydrotreated Light Distillate	64742-47-8	25.00%	*600*	*0.01821%*	
Claymax	Chemplex	Clay Stabilizer	No Hazardous Ingredient	NA	0.00%	*0*	*0.00000%*	
Plexgel 907L-EB	Chemplex	Gelling Agent	Distillates, Hydrotreated Light	64742-47-8	50.00%	*0*	*0.00000%*	
Plexgel 907L-EB	Chemplex	Gelling Agent	Organophylic Clay	NDA	2.00%	*0*	*0.00000%*	
Plexgel 907L-EB	Chemplex	Gelling Agent	Crystalline Silica	14808-60-7	0.06%	*0*	*0.00000%*	
Plexgel 907L-EB	Chemplex	Gelling Agent	Alcohol Ethoxylates	34398-01-1	1.00%	*0*	*0.00000%*	
Plexgel 907L-EB	Chemplex	Gelling Agent	Guar Gum	9000-30-0	50.00%	*0*	*0.00000%*	
Plexgel Breaker 10L	Chemplex	Breaker/Gel	No Hazardous Ingredient	NA	0.00%	*0*	*0.00000%*	
								Non-MSDS Component
								Non-MSDS Component
								Non-MSDS Component
								Non-MSDS Component
								Non-MSDS Component
								Non-MSDS Component

*Total Water Volume sources may include fresh water, produced water, and/or recycled water
** Information is based on the maximum potential for concentration and thus the total may be over 100%

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.

CHARLES SCHMALTZ
CONSULTING GEOLOGIST
WICHITA, KANSAS

GEOLOGIC REPORT LOG

COMPANY MURFIN DRILLING CO.

WELL DSA 'OWWO' #1-3

FIELD MIKE'S METEOR

LOCATION 1550' FSL 990' FWL

SEC 3 TWSP 23S RGE 12W

COUNTY STAFFORD

STATE KANSAS

API#: 15-185-21733-00-01

12W / 23S / 3

PRODUCTION:

ELEVATION: KB 1846 DF GL 1835 KB

DRILLING MEASURED FROM

MUD COMPANY MUDCO/SERVICE MUD, INC

CONTRACTOR MURFIN DRILLING CO. RIG #21

COMMENCED 22 AUG 2014 COMPLETED 25 AUG 2014

CASING RECORD:
SURFACE 8⅝"@ 294' PRODUCTION 5½"@ 3897'

TOTAL DEPTH DRLS. 3900'

TOTAL DEPTH LOG NA

SAMPLES SAVED FROM 10'-3780 TO RTD

DRILLING TIME KEPT FROM 1'-3780 TO RTD

SAMPLES EXAMINED FROM 3780' TO RTD

GEOLOGICAL SUPERVISION FROM SPUD TO TOTAL DEPTH

DRILL STEM TESTS NONE

ELECTRICAL SURVEYS PIONEER ENERGY SER.
3 ATTEMPTS TO RUN LOG,
ALL UNSUCCESSFUL. LOG
STOP @ 3735', 3740', 3723'

FORMATION TOPS & STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
ANHYDRITE - TOP				
ANHYDRITE - BASE				
TOPEKA				
OREAD				
HEEBNER				
TORONTO				
DOUGLAS				
LANSING				
STARK				
BKC				
VIOLA				
SIMPSON				
ARBUCKLE				
TOTAL DEPTH	3900			

REFERENCE WELL FOR STRUCTURE

SCHM01-12

DRILL STEM TESTS

No.	Interval	IFP/Time	ISIP/Time	FFP/Time	FSIP/Time	IHH-FHH	RECOVERY

BIT RECORD

NO	SIZE	MAKE	TYPE	DEPTH OUT	FEET	HOURS
1	7⅞	HTC	GX2DC	3900	120	3½

PIPE STRAPS & DEV. SURVEYS

PIPE STRAPS: NONE
DEVIATION SURVEYS:
@ 2018': 0.7°
@ 2812': 1.5° RESURVEY(s)
@ 3322': 4.1° @ 3250': 4.6°
@ 3900': 2.8° @ 3900': 2.9°

DAILY PENETRATION / MUD RECORD

DAILY PENETRATION DATE	DEPTH	MUD TYPE:	PUMP SIZE:	BPS:	NO	DATE	DEPTH	ACTIVITY	WT	VIS	WL	VP	PH	CS	LCM	CHL
8-22	MIRT				2	8-23	2590	REAM	9.1	37	NC	15	9.5	13/14	1#	82000
8-23	2018'				3	8-24	3900	CTCH	9.6	48	11.8	28	8.0	37/48	½#	45000
8-24	3900'				8-25	3900'	SPOTTED 80 BBLS PRE-MIX ON BOTTOM PRIOR TO LOGGING									
8-25	3900'						SPOT MUD		9.0	59	6.0	36	7.0	21/39	0#	9500

LEGEND: Dolomite, Chert, Ool.Lime, Limestone, Carb sh, Shale, Sandstone, Salt, Anhydrite

REMARKS

3 ATTEMPTS WERE MADE TO LOG THE WELL @ 3900' ALL FAILED. THE LOGGING TOOL STOPPED @ 3735', 3740' & 3723'. SEVERAL MEASURES WERE TAKEN TO IMPROVE HOLE CONDITIONS INCLUDING REAMING, CIRCULATING THE PROBLEM INTERVAL AND SHORT TRIPS ALL WERE UNSUCCESSFUL. IN VIEW OF THIS SITUATION, SURVEYS, THE POSSIBILITY OF DOGLEG SHOULD BE CONSIDERED. IT SHOULD BE NOTED THAT THE DRILL PIPE STACKED OUT AT THE SAME POINT ON THE TRIP IN THE HOLE AFTER LOG ATTEMPT #2.

OIL SHOWS

SAMPLE DESCRIPTIONS

- dolo: off wh, tan, fn-medxtln, few pcs sandy, spp pr intercrstln ø, no show
- dolo: as above, wl dolo: tanyfmxtln, dense, no show
- dolo: tan, mostly, fn-some medxtln, fr pr intercrstln ø, no show
- dolo: as above, few pcs wh, lt grey Δ, fresh opaque → semi-trans
- dolo: tan, off wh, fn-medxtln, scat pr intercrstln ø, no show
- dolo: as above, few pcs wh fnxtln, sandy dolo.
- dolo: lt grey, tan, fn-medxtln, scat pr - some fr intercrstln ø, no show
- dolo: tan, lt grey, fn-medxtln, spt pr intercrstln ø, no show
- dolo: as above, fr pr intercrstln ø, NS
- dolo: lt grey, medxtln, scat rhombic, wl dolo: lt grey, tan, fn-medxtln, pr-fr intercrstln & some vuggy ø, NS
- dolo: lt grey, tan, fn-medxtln, scat pr intercrstln ø, no show
- dolo: tan, lt grey, fn-medxtln, sli sandy, scat pr intercrstln ø, no show; Δ wh, fresh, opaque, no show

LITHOLOGY

DEPTH: 80, 90, 3800, 10, 20, 30, 40, 3850, 60, 70, 80, 90, 3900

DRILLING TIME IN MINUTES PER FOOT
Rate of Penetration Decreases
5" 10" 15" 20" 25"

OG 7710

BASIC ENERGY SERVICES

PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1002852	1718	08/27/2014

INVOICE NUMBER
91579873

Pratt (620) 672-1201

BILL TO
MURFIN DRILLING
PO Box: 288
RUSSELL
KS US 67665
ATTN: ACCOUNTS PAYABLE

JOB SITE
LEASE NAME: DSA OWWO 1-3
LOCATION:
COUNTY: Stafford
STATE: KS
JOB DESCRIPTION: Cement-New Well Casing/Pi
JOB CONTACT:

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40759208	27463		Net - 30 days	09/26/2014

For Service Dates: 08/25/2014 to 08/25/2014

0040759208

171811304A Cement-New Well Casing/Pi 08/25/2014
Cement 5 1/2" Longstring

USED FOR IC-103
APPROVED

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
AA2 Cement	175.00	EA	12.75	2,231.26 T
60/40 POZ	50.00	EA	9.00	450.00 T
C-41P	42.00	EA	3.00	126.00 T
Salt	869.00	EA	0.37	325.87 T
Cement Friction Reducer	50.00	EA	4.50	225.00 T
C-44	165.00	EA	3.86	637.31 T
FLA-322	83.00	EA	5.62	466.87 T
Mud Flush	500.00	EA	1.13	562.50 T
Gilsonite	875.00	EA	0.50	439.69 T
Claymax KCL Substitute	5.00	EA	26.25	131.25 T
"Latch Down Plug & Baffle, 5 1/2"" (Blu	1.00	EA	300.00	300.00
"Auto Fill Float Shoe 5 1/2"" (Blue)"	1.00	EA	270.00	270.00
"Turbolizer, 5 1/2"" (Blue)"	10.00	EA	82.50	825.00
Cement Scratchers Rotating Type	30.00	EA	37.50	1,125.00
"Unit Mileage Chg (PU, cars one way)"	35.00	MI	3.19	111.56
Heavy Equipment Mileage	70.00	MI	5.25	367.50
"Proppant & Bulk Del. Chgs., per ton mil	364.00	EA	1.65	600.60
Depth Charge; 3001-4000'	1.00	EA	1,620.00	1,620.00
Blending & Mixing Service Charge	225.00	BAG	1.05	236.26
Casing Swivel Rental	1.00	EA	150.00	150.00
Plug Container Util. Chg.	1.00	EA	187.50	187.50
"Service Supervisor, first 8 hrs on loc.	1.00	EA	131.25	131.25

IC103 Z 1841.0001.1 11,920.51 Cement Prod Csg #1-3

PLEASE REMIT TO:
BASIC ENERGY SERVICES,LP
PO BOX 841903
DALLAS,TX 75284-1903

SEND OTHER CORRESPONDENCE TO:
BASIC ENERGY SERVICES,LP
801 CHERRY ST, STE 2100
FORT WORTH, TX 76102

SUB TOTAL	11,520.41
TAX	400.10
INVOICE TOTAL	11,920.51

BASIC ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 11304 A

3 23S 12W DATE TICKET NO.

DATE OF JOB 8-25-14 DISTRICT	NEW WELL ☒ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:
CUSTOMER Murfin Drilling Co Inc	LEASE DSA OWWO WELL NO 1-3
ADDRESS	COUNTY Stafford STATE KS
CITY STATE	SERVICE CREW Scott, Josh, Cole
AUTHORIZED BY Craig Hutchinson	JOB TYPE: 5½ long string CNW

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
38470	1.2				
27463	1.2				
14631 14867	1.2				

	DATE	AM/PM	TIME
TRUCK CALLED			
ARRIVED AT JOB	8-25-14	AM/PM	11:00
START OPERATION	8-25-14	AM/PM	3:40
FINISH OPERATION	8-25-14	AM/PM	4:50
RELEASED	8-25-14	AM/PM	5:45
MILES FROM STATION TO WELL			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Craig Hutchinson
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	$ AMOUNT
CP105	AA2 Cement	SK	175		2975 00
CP103	60/40 POZ	SK	50		600 00
CC105	C-41P	lb	42		168 00
CC111	Salt	lb	869		434 50
CC112	Cement friction Reducer	lb	50		300 00
CC115	C-44	lb	165		849 75
CC129	FLA-322	lb	85		622 50
CC201	Gilsonite	lb	875		586 25
CF607	Latch down Plug + Baffle 5½	Ea	1		400 00
CF1251	Auto fill Float shoe 5½	Ea	1		360 00
CF1651	Turbolizer 5½	Ea	10		1100 00
CF2002	Cement Scratchers Rotating Type	Ea	30		1500 00
CC151	Mud flush	Gal	500		750 00
C704	Claymax KCL Substitute	Gal	5		175 00
E100	Unit mileage pick up	MI	35		148 75
E101	Heavy Equip. Mileage	MI	70		490 00
E113	Prop + Bulk Delivery	TM	364		800 60
CE204	Depth Charge 3001-4000'	Hrs	1		2160 00
CE240	Blending + Mixing Charge	SK	225		315 00

CHEMICAL / ACID DATA:			

SUB TOTAL		KC
SERVICE & EQUIPMENT	%TAX ON $	
MATERIALS	%TAX ON $	
TOTAL		

SERVICE REPRESENTATIVE Scott

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Craig Hutchinson
(WELL OWNER OPERATOR, CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

CLOUD LITHO - Abilene, TX

BASIC ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET

1718 ~~11305~~ A
11304
Continuation

3 25S 12W DATE TICKET NO.

DATE OF JOB 8-25-14 DISTRICT	NEW WELL ☑ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:
CUSTOMER Murfin Drilling Co Inc	LEASE DSA OWWO WELL NO. 1-3
ADDRESS	COUNTY Stafford STATE KS
CITY STATE	SERVICE CREW Scott, Josh, Cole
AUTHORIZED BY Craig Hutchinson	JOB TYPE: 5½ long string CNW

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
55970	1.2				
27463	1.2				
19831 19862	1.2				

	DATE	AM/PM	TIME
TRUCK CALLED			
ARRIVED AT JOB	8-25-14	AM PM	11:00
START OPERATION	8-25-14	AM PM	3:40
FINISH OPERATION	8-25-14	AM PM	4:50
RELEASED	8-25-14	AM PM	5:45
MILES FROM STATION TO WELL			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Craig Hutchinson
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	$ AMOUNT
CE501	Casing Swivel Rental	Ea	1		200 00
CE504	Plug Container Utilization	Job	1		250 00
5003	Service Supervisor	Ea	1		175 00

CHEMICAL / ACID DATA:			

SUB TOTAL		
SERVICE & EQUIPMENT	%TAX ON $	
MATERIALS	%TAX ON $	
TOTAL		11,520 41

KC

SERVICE REPRESENTATIVE Scott

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Craig Hutchinson
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

CLOUD LITHO - Abilene, TX

BASIC energy services, L.P.

TREATMENT REPORT

Customer: Muckin Drilling Co Inc	Lease No.		Date: 8-25-14		
Lease: DSA Cornwell	Well #: 1-3				
Field Order #: 11304A	Station: Pratt	Casing: 5 1/2	Depth	County: Stafford	State: KS
Type Job: 5 1/2 - Long String CMW		Formation		Legal Description: 3 23S 12W	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size: 5 1/2	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth: 3843	Depth	From	To	Pre Pad	Max		5 Min.
Volume: 89.31	Volume	From	To	Pad	Min		10 Min.
Max Press: 1500	Max Press	From	To	Frac	Avg		15 Min.
Well Connection: 5 1/2	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative: Craig Hubbard | Station Manager: Kevin Goodley | Treater: Scott Graves

Service Units	35970	27463	19831 / 19867									
Driver Names	Scott	Josh	Cole									

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
11:00					On Location Safety Meeting Rig up
12:15					Run Float Equipment
2:35					Turbolizer on 1, 3, 5, 7, 9, 11, 13, 15, 19, 21
5:35					Circulate well for 1 hour
3:40	0		5	3	Pump H20 Spacer
3:42	150		12	4	Pump flush 500 gallons mud flush
3:45	150		5	4	Pump H20 Spacer
3:47	200		44.56	4.5	Mix 175 sks AA2 cement 15 ppg
3:58					Wash pump & lines clean
3:40					Drop plug
3:41	300			4.8	Start Displacement
4:40	500		90.5	2	Plug landed
4:40	1500				Pressure up set Intebelow Plug
4:42					Release pressure Plug held
4:45	0		7	2.5	Plug Rate Hole 30sks 60/40 POZ
4:50	0		5.5	2.5	Plug Mouse Hole 20sks 60/40 POZ
4:50					Shut down
					Job Complete

Taylor Printing, Inc. 620-672-3656

15-185-21733-0000

ACO-1 Well History

Side TWO

OPERATOR F & M OIL CO., INC. LEASE NAME D.S.A. "A" SEC 3 TWP 23S RGE 12W (W)

WELL NO 1

FILL IN WELL INFORMATION AS REQUIRED:

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

Show Geological markers, logs run, or other Descriptive Information.

Formation description, contents, etc.	Top	Bottom	Name	Depth
			Sample Tops:	
Check if no Drill Stem Tests Run.			Heebner	3149 (-1304)
Check if samples sent Geological Survey.			Br/Lime	3285 (-1440)
0-1680 Sand & Shale			Lansing	3314 (-1469)
1680-3780 Lime & Shale			B/KC	3567 (-1722)
3780 RTD			Viola	3603 (-1758)
DST#1 3316-3350', A & B zones 30-45-60-45, wk to fr blow, rec 15' SGCM, IFP 31-31#, ISIP 63#, FFP 42-42#, FSIP 42#.			Arbuckle	3750 (-1905)
			RTD	3780 (-1935)
DST#2 3354-3400', C & F zones 30-45-60-45, wk blow thruout, rec 15' mud w/few oil spots in top of tool, IFP 42-42#, ISIP 961#, FFP 53-53#, FSIP 768#.			Electric Log Tops:	
			Anhydrite	616 (+1229)
			Heebner	3149 (-1304)
DST#3 3429-3495', H,I & J zones 30-45-30-45, wk blow died in 23" on 2nd opn, rec 20' Mud w/oil spots in tool, IFP 42-42#, ISIP 1046#, FFP 53-63#, FSIP 918#, BHT 94°.			Toronto	3166 (-1321)
			Br/Lime	3286 (-1441)
			Lansing	3312 (-1467)
DST#4 3502-3560', K & L zones 30-45-60-45, fr blow, rec 140' SMW, IFP 53-63#, ISIP 1267#, FFP 74-106#, FSIP 1246#, BHT 94°.			B/KC	3568 (-1723)
			Viola	3606 (-1761)
			Simpson	3720 (-1875)
DST#5 3595-3620', Viola 30-45-60-45, wk blow, rec 90' GIP, 30' SG&OSM, grind out, 12% gas, 6% oil, 20% wtr, 62% mud, IFP 32-32#, ISIP 53#, FFP 42-42#, FSIP 42#, BHT 95°.			Arbuckle	3750 (-1905)
			LTD	3778 (-1933)
If additional space is needed use Page 2				

Report of all strings set — surface, intermediate, production, etc. CASING RECORD (New) or (Used)

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs/ft.	Setting depth	Type cement	Sacks	Type and percent additives
Surface	12¼"	8-5/8"	20#	294'	common	200	2% gel, 3% CC

LINER RECORD

Top, ft.	Bottom, ft.	Sacks cement

TUBING RECORD

Size	Setting depth	Packer set at

PERFORATION RECORD

Shots per ft.	Size & type	Depth interval

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated

Date of first production | Producing method (flowing, pumping, gas lift, etc.) | Gravity

Estimated Production-I.P. | Oil bbls. | Gas MCF | Water % | Gas-oil ratio bbls. CFPB

Disposition of gas (vented, used on lease or sold) | Perforations