



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1201783  
OIL & GAS CONSERVATION DIVISION

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 # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

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: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- 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 #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ 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: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

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
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1201783

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

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 <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	Walter 8-1
Doc ID	1201783

All Electric Logs Run

Dual Induction
Dual Compensated
Microresistivity
Borehole Compensated



**Walter #8-1**

Operator: Murfin Drilling Company, Inc.  
Contractor: Murfin Drilling Company, Inc.  
Rig #2

West Cahoj Prospect #3332  
1320' FNL 330' FEL  
Sec. 1-1S-36W  
Rawlins County, Kansas

Contact Person: Scott Robinson  
Phone number: 316-267-3241  
Well site Geologist: Robert Hendrix

Call Depth: 3210'  
Spud: 1/7/14 @ 11:00AM  
Complete: 1/11/14

API # 15-153-20970-00-00  
Casing: 8 5/8" @ 260'  
5 1/2" @ 4500'

RTD: 4510'

Elevation: 3190' GL  
3201' KB

**DAILY INFORMATION:**

**NOTE:** 3' cut in elevation while building location... NEW GL 3190'... KB 3201'

- 1/6/14 MIRT
- 1/7/14 Spud today.
- 1/8/14 Depth 855'. Cut 855'. DT: 8 hrs WOC. CT: None. Dev: 1/2° @ 260'. Spud @ 11:00AM 1/7. Ran 6jts=247.63' of 23# 8 5/8" surf csg, set @ 260'. Allied cmt w/240' of Comm 3%cc. PD @ 4:30PM 1/7. DO 45' cmt @ 12:30AM 1/8. Cmt circ.
- 1/9/14 Depth 3372'. Cut 2517'. DT: None. CT: None. Dev.: 3/4° @ 1013', 1° @ 1861'.
- 1/10/14 RTD 4510'. Cut 1138'. DT: None. CT: 10 3/4 hrs. Dev.: None. **Oread:** Ls white f-mxln, chalky, foss, pr vug por, 5% sample black spotty oil stain, slsfo ( heavy), faint odor. **LKC D:** Ls tan to white, m-lxln, sl chalky, foss, fr interxln por, 20% sample lt sat stain, frsfo, good odor. **LKC G:** Ls white to gray, fxln, foss, pr interxln por, 10% sample black spotty to sat stain, slsfo on break, faint odor. **LKC J:** Ls white f-mxln, sl oolitic, foss, fr interxln por, 20% sample dark sat stain, prsfo, good odor. HC @ 4:45AM 1/10. Expect to log after 10:00AM. Going to run 5 1/2" prod csg.
- 1/11/14 RTD: 4510'. CT: 24hrs. Dev.: 3/4° @ 4510'. Pioneer logged 11:30AM-3:30PM 1/10. LTD: 4507'. Ran 107jts of 15.5# 5 1/2" prod csg, set @ 4500'. Swift cmt w/450sxs (250SMD, 200EA-2). PD @ 6:00AM 1/11. 30sxs RH, 20sxs MH. Circ 10sxs.
- 1/12/14 RTD: 4510'. CT: 3hrs. RR @ 10:00AM 1/11. FINAL REPORT

Walter #8-1 1320' FNL 330' FEL Sec. 1-T1S-R36W 3201' KB							Walter #5-1 765' FNL 867' FEL Sec. 1-T1S-R36W 3142' KB	
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	3122	+79	+6	3122	+79	+6	3069	+73
B/Anhydrite	3158	+43	+6	3161	+40	+3	3105	+37
Neva				3615	-414	-1	3555	-413
Red Eagle				3679	-478	-2	3618	-476
Foraker	3721	-510	+3	3725	-524	-1	3665	-523
Topeka				3934	-733	-3	3872	-730
Oread				4048	-847	-2	3987	-845
Lansing				4149	-948	-3	4087	-945
Stark	4360	-1159	+1	4361	-1160	Flat	4302	-1160
BKC				4413	-1212	Flat	4354	-1212
RTD	4510	-1309					4474	-1332
LTD				4507	-1306		4478	-1336



PO Box 93999  
Southlake, TX 76092

Voice: (817) 546-7282  
Fax: (817) 246-3361

# INVOICE

*acct.*  
*Prod-LH*

Invoice Number: 140761  
Invoice Date: Jan 7, 2014  
Page: 1

<b>Bill To:</b>
Murfin Drlg. Co., Inc. 250 N. Water STE #300 Wichita, KS 67202

Customer ID	Field Ticket #	Payment Terms	
Murfin	62526	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jan 7, 2014	2/6/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Walter #8-1		
245.00	CEMENT MATERIALS	Class A Common	17.90	4,385.50
9.00	CEMENT MATERIALS	Chloride	64.00	576.00
257.25	CEMENT SERVICE	Cubic Feet Charge	2.48	637.98
948.80	CEMENT SERVICE	Ton Mileage Charge	2.60	2,466.88
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
80.00	CEMENT SERVICE	Pump Truck Mileage	7.70	616.00
1.00	CEMENT SERVICE	Swedge Manifold Rental	275.00	275.00
80.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	352.00
1.00	CEMENT SUPERVISOR	LaRene Wentz		
1.00	CEMENT SUPERVISOR	Andrew Forslund		

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

\$ 3,787.56 *okw 2/5/14*

ONLY IF PAID ON OR BEFORE  
Feb 1, 2014

Subtotal	10,821.61
Sales Tax	391.96
Total Invoice Amount	11,213.57
Payment/Credit Applied	
<b>TOTAL</b>	<b>11,213.57</b>

- 3787.56  

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7426.01

# ALLIED OIL & GAS SERVICES, LLC 062526

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Oakley, TX

DATE <u>1-7-14</u>	SEC. <u>1</u>	TWP. <u>1</u>	RANGE <u>36</u>	CALLED OUT	ON LOCATION <u>3:00 pm</u>	JOB START <u>4:00 pm</u>	JOB FINISH <u>4:30 pm</u>
LEASE <u>Walter</u>	WELL# <u>8-1</u>	LOCATION <u>Beardsley, State, W to Rd 2</u>	COUNTY <u>Rawlins</u>	STATE <u>KS</u>			
OLD OR <u>NEW</u> (Circle one)				<u>2 to Rig Wrist</u>			

CONTRACTOR <u>Marfin 2</u>	OWNER <u>same</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4</u> T.D. <u>2601</u>	CEMENT
CASING SIZE <u>8 7/8</u> DEPTH <u>2601</u>	AMOUNT ORDERED <u>245 sks com 3 90cc</u>
TUBING SIZE _____ DEPTH _____	
DRILL PIPE _____ DEPTH _____	
TOOL _____ DEPTH _____	
PRES. MAX _____ MINIMUM _____	COMMON <u>245 sks @ 12.90 3185.50</u>
MEAS. LINE _____ SHOE JOINT _____	POZMIX _____ @ _____
CEMENT LEFT IN CSG. <u>151</u>	GEL _____ @ _____
PERFS. _____	CHLORIDE <u>7 sks @ 64.00 576.00</u>
DISPLACEMENT <u>15.68661</u>	ASC _____ @ _____

PUMP TRUCK # <u>431</u> CEMENTER <u>Karone E. Roberts</u>	
HELPER <u>Andrew Forstman</u>	
BULK TRUCK # <u>818/387</u> DRIVER <u>Juan Tamez (T.E.S)</u>	
BULK TRUCK # _____ DRIVER _____	
HANDLING <u>257.25</u> @ <u>2.48</u> <u>637.98</u>	
MILEAGE <u>11.86</u> max 80 x <u>2.60</u> <u>306.88</u>	
TOTAL <u>886.36</u>	

REMARKS:  
Mix 245 sks cement  
Displace with water  
Cement did circulate  
20 sks to pit  
  
Thank you

SERVICE

DEPTH OF JOB _____	
PUMP TRUCK CHARGE _____	<u>1512.25</u>
EXTRA FOOTAGE _____ @ _____	
MILEAGE <u>MTR</u> 80 @ <u>7.90</u> <u>616.00</u>	
MANIFOLD <u>Schodge</u> @ _____ <u>775.00</u>	
<u>MTR</u> 80 @ <u>4.90</u> <u>352.00</u>	
TOTAL <u>2755.25</u>	

CHARGE TO: Marfin Drilling

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

_____ @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	
TOTAL _____	

To: Allied Oil & Gas Services, LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME David Cubero

SIGNATURE David Cubero

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES 10,821.61

DISCOUNT 3,787.56 IF PAID IN 30 DAYS

7,034.04 Net.



P. O. Box 466  
Ness City, KS 67560  
Off: 785-798-2300

Ac Hg

cc:Liz  
cc:L-1

# Invoice

DATE	INVOICE #
1/10/2014	25364

BILL TO
Murfin Drilling Co Inc PO Box 661 Colby, KS 67701-0661
USED FOR <u>LC 103</u>
APPROVED <u>JR R</u> <u>F#</u>

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#8-1	Walters	Rawlins	Company Tools	Oil	Development	Cement LongStri...	Don
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				150	Miles	6.00	900.00
579D	Pump Charge - Top To Bottom LongString - 4499 Feet				1	Job	2,000.00	2,000.00
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
281	Mud Flush				500	Gallon(s)	1.25	625.00T
290	D-Air				5	Gallon(s)	42.00	210.00T
403-5	5 1/2" Cement Basket				3	Each	300.00	900.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	275.00	275.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	375.00	375.00T
409-5	5 1/2" Turbolizer				15	Each	90.00	1,350.00T
413-5	5 1/2" Roto Wall Scratcher				20	Each	40.00	800.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
325	Standard Cement				200	Sacks	14.50	2,900.00T
276	Flocele				50	Lb(s)	2.50	125.00T
283	Salt				1,000	Lb(s)	0.20	200.00T
284	Calseal				10	Sack(s)	35.00	350.00T
285	CFR-1				141	Lb(s)	4.50	634.50T
330	Swift Multi-Density Standard (MIDCON II)				300	Sacks	18.50	5,550.00T
276	Flocele				150	Lb(s)	2.50	375.00T
581D	Service Charge Cement				500	Sacks	2.00	1,000.00
583D	Drayage				3,814.43	Ton Miles	1.00	3,814.43
	Subtotal							22,683.93
	Sales Tax Rawlins County						7.90%	1,182.59
<b>Thank You For Your Business In 2013!</b> <b>We Look Forward To Serving You In 2014!</b>							<b>Total</b>	\$23,866.52





Services, Inc.

CHARGE TO: Martin Drig Co.  
ADDRESS  
CITY, STATE, ZIP CODE

TICKET 25364

PAGE 1 OF 2

1. <u>Hopki, KS</u>	WELL/PROJECT NO. <u>8-1</u>	LEASE <u>Walters</u>	COUNTY/PARISH <u>Railins</u>	STATE <u>Ks</u>	CITY	DATE <u>1-10-14</u>	OWNER
2. <u>Ness City, KS</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Co</u>	RIG NAME/NO. <u>22</u>	SHIPPED VIA <u>ACT</u>	DELIVERED TO <u>New/Bearsley, KS</u>	ORDER NO.	
3.	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>In Field</u>	JOB PURPOSE <u>Cement Lining</u>	WELL PERMIT NO.	WELL LOCATION		
4.	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.			UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	U/M	QTY.		
575					MILEAGE #113	152	Mi		400	200.00
579					Ramp Charge - Out Top to 8th	1	ea	4499	44	2000.00
221					Liquid N2	4	gal		2500	10000
281					Wool Wash	520	gal		1.25	650.00
282					D-Air	5	gal		4200	21000
423					Cement Baskets	3	ea	5 1/2 in	3000	900.00
426					Take Down Plug to Bell	1	ea	5 1/2 in	27500	27500
427					Insert - Foot Side w/ Hub. Per	1	ea	5 1/2 in	37500	37500
429					Turbillizers	15	ea	5 1/2 in	9000	135000
413					Rts - Wall Scrappers	20	ea	5 1/2 in	4000	80000
419					Rotating Head Ratchet	1	ea	5 1/2 in	20000	20000

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY**, and **LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED 1-10-14 TIME SIGNED 2:30  A.M.  P.M.

DATE SIGNED 1-10-14 TIME SIGNED 2:30  A.M.  P.M.

**REMIT PAYMENT TO:**  
**SWIFT SERVICES, INC.**  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

**SURVEY**

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	WE UNDERSTOOD AND MET YOUR NEEDS?	OUR SERVICE WAS PERFORMED WITHOUT DELAY?	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	ARE YOU SATISFIED WITH OUR SERVICE?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CUSTOMER DID NOT WISH TO RESPOND

SWIFT OPERATOR Alan Lemman APPROVAL

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

TOTAL 23,866.52

Thank You!



PO Box 466  
Ness City, KS 67560  
Off: 785-798-2300

CUSTOMER  
*Martin Dry Co.*

WELL  
*8-1 Washers*

DATE  
*7-10-14*

PAGE *2* OF *2*

TICKET No. *253624*

TICKET CONTINUATION

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WEIGHT				UNIT PRICE	AMOUNT	
		LOG	ACCT	DE			QTY	UM	QTY	UM			
<i>295</i>						<i>Structure Cont. EH-2</i>	<i>200</i>	<i>SKS</i>	<i>1800</i>	<i>lbs</i>		<i>1450</i>	<i>290000</i>
<i>276</i>						<i>Flacole 1/4 1/8K</i>	<i>50</i>	<i>lbs</i>				<i>250</i>	<i>12500</i>
<i>283</i>						<i>Salt</i>	<i>1000</i>	<i>lbs</i>				<i>20</i>	<i>20000</i>
<i>284</i>						<i>Colored</i>	<i>900</i>	<i>lbs</i>	<i>10</i>	<i>SKS</i>		<i>3500</i>	<i>35000</i>
<i>285</i>						<i>CFR-1 3/4 3/8</i>	<i>150</i>	<i>lbs</i>				<i>450</i>	<i>68450</i>
<i>320</i>						<i>SUD Cement</i>	<i>300</i>	<i>SKS</i>	<i>2978</i>	<i>lbs</i>		<i>1850</i>	<i>557100</i>
<i>276</i>						<i>Flacole</i>	<i>150</i>	<i>lbs</i>				<i>250</i>	<i>37500</i>
<i>581</i>												<i>200</i>	<i>10000</i>
<i>583</i>												<i>100</i>	<i>381443</i>

SERVICE CHARGE  
*Cement*

TRUCKAGE CHANGE TOTAL WEIGHT LOADED MILES  
*50859 16 150*

CUBIC FEET  
*500 SKS*

TON MILES  
*3814.43*

CONTINUATION TOTAL  
*14948.93*

JOB LOG.

SWIFT Services, Inc.

DATE 1-10-14 PAGE NO. 1

CUSTOMER Mudra Drilling Co. WELL NO. 8-1 LEASE Walters JOB TYPE Cement on string TICKET NO. 25361

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
1/10-14	2315					15.5 <sup>#</sup>	5 1/2	TD-4510
1/11	0045							ON location - F.E. - 100' Roto Scraper
								Start 5 1/2" - 15.5 <sup>#</sup> casing to 4489 1/2'
								Insert float shoe w/ A&A - fill
								L.D. Baffle - S.S. 23.33' = 4476' (106.5)
								Cent. Turbos - 1-2-3-4-5-7-9-10-12-13-14
								15-16-32-59 - Baskets 14-33-60
								circ @ 49 - casing over running
	0155							Drop ball to circ - 15 min
	0210							Continue running casing
	0315							Finish run casing
	0330							Start circ / Rotate casing
	0430							FIN CIR -
			2 5					Plug RH-30 SKS SMD
								Plug MH-20 SKS SMD
		5	12	32			250	Pump 500 gal Mud flush
		6	20				300	Pump 20 BBL KCL flush
		5 1/2					300	Start 250 SKS SMD cement
		4 1/2	145				300	Fin SMD - Start 200 SKS EA-2 cement
			195					Fin cement
								Wash out pump & lines
								Drop L.D. Plug
		9					400	Start Displ
		9	55				450	Caught L.F.A
		8	75				700	slow Rate gradually
		7	80				1000	"
		6 1/2	90				900	"
			106				1300	Press before plug down
	0600		106 1/2				1800	Plug Down - Hold - Release & Hold
							0	
								Job Complete
								Washed & Back up.
								Thanks Don, Jon
								Craig & Jared
								10 SK cement to Pot

# Robert D. Hendrix

Petroleum Geologist

## GEOLOGIST'S REPORT

### DRILLING TIME AND SAMPLE LOG

COMPANY **Murfin Drilling Co. Inc.**

LEASE **Walter #8-1**

FIELD **Scoda**

LOCATION **1320' In & 330' Fe1**

SEC **1** TWP **1** RGE **36w**

COUNTY **Rawlins** STATE **Kansas**

CONTRACTOR **Murfin Drilling Co. Inc. Rig 2**

SPUD **1/7/2014** COMP **1/10/2014**

RTD **4:510'** LTD **4:507'**

MUD UP **3:308'** TYPE MUD **Chemical**

SAMPLES SAVED FROM **3:510'** TO **TD**

DRILLING TIME KEPT FROM **3:500'** TO **TD**

SAMPLES EXAMINED FROM **3:510'** TO **TD**

GEOLOGICAL SUPERVISION FROM **3211'**

GEOLOGIST ON WELL **Robert D. Hendrix**

FORMER EMPLOYERS **Permutit/Inductium/Metcon/Stone**

FORMATION TOPS

ELECTRIC LOG

SAMPLE

Neve **3122 (-79)**

Topeka **3721 (-520)**

Oread **4048 (-847)**

Lansing **4148 (-947)**

Stark **4360 (-1159)**

BKC **4414 (-1213)**

ELEVATIONS

KB **3201'**

DF

GL **3109'**

Measurements Are All From **Kelly Bushing**

CASING

CONDUCTOR

SURFACE **8.5/8" at 260'**

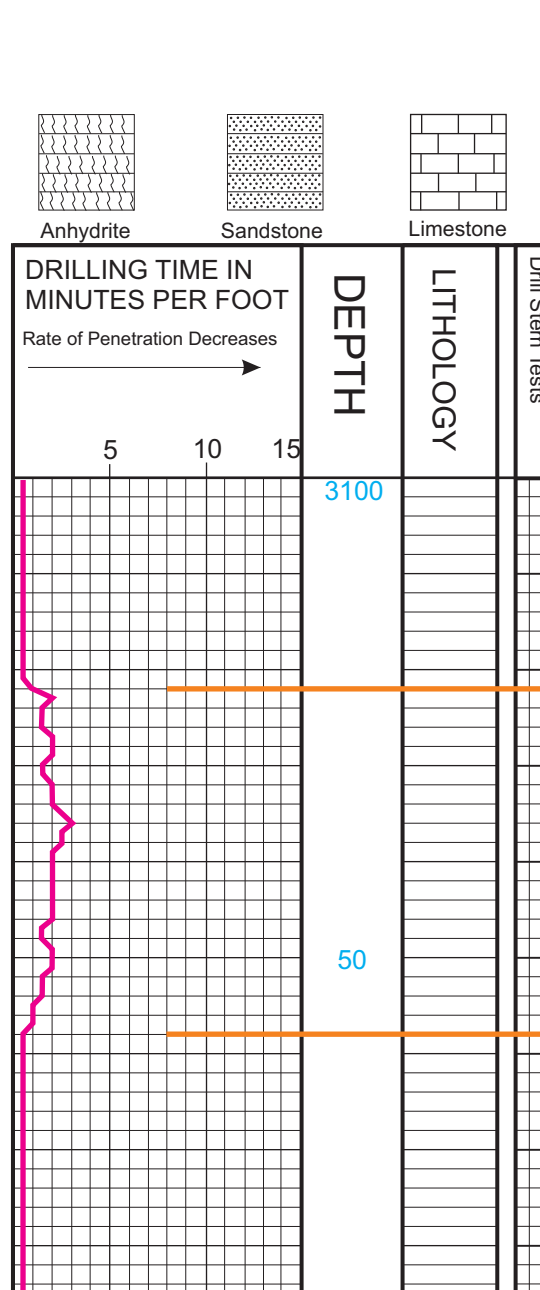
PRODUCTION **5 1/2" @ 4500'**

ELECTRICAL SURVEYS

Prime Energy Services

Permutit/Inductium/Metcon/Stone

AP# 15-153-20970



REMARKS:

DEPTH	LITHOLOGY	SAMPLE DESCRIPTION	REMARKS
3100	Anhydrite		<b>Anhydrite 3122 (+79)</b>
3150	Base Anhydrite		<b>Base Anhydrite 3158 (+56)</b>
3200			
3250			
3300			
3350			
3400			
3450			
3500			
3550			
3600			
3650			
3700			
3750			
3800			
3850			
3900			
3950			
4000			
4050			
4100			
4150			
4200			
4250			
4300			
4350			
4400			
4450			
4500			
4550			
4600			