



KANSAS CORPORATION COMMISSION 1074168
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009

Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5682
Name: Hughes Drilling Co, a General Partnership
Address 1: 122 MAIN
Address 2: _____
City: WELLSVILLE State: KS Zip: 66092 + 8522
Contact Person: Clay Hughes
Phone: (785) 883-2235
CONTRACTOR: License # 5682
Name: Hughes Drilling Co, a General Partnership
Wellsite Geologist: NA
Purchaser: _____

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil WSW SWD SLOW
 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
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

<u>1/6/2012</u>	<u>1/12/2012</u>	<u>2/15/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-059-25888-00-00
Spot Description: _____
SW NE NW NE Sec. 11 Twp. 16 S. R. 20 East West
4900 Feet from North / South Line of Section
1875 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Franklin
Lease Name: South McMillen Well #: I-2
Field Name: Leloup
Producing Formation: Bartlesville
Elevation: Ground: 971 Kelly Bushing: 0
Total Depth: 795 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 0 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: _____ Feet
If Alternate II completion, cement circulated from: 0
feet depth to: 32 w/ 10 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 1500 ppm Fluid volume: 80 bbls
Dewatering method used: Evaporated
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	
<input type="checkbox"/> Letter of Confidentiality Received	Date: _____
<input type="checkbox"/> Confidential Release Date: _____	
<input checked="" type="checkbox"/> Wireline Log Received	
<input checked="" type="checkbox"/> Geologist Report Received	
<input checked="" type="checkbox"/> UIC Distribution	
ALT <input type="checkbox"/> I <input checked="" type="checkbox"/> II <input type="checkbox"/> III	Approved by: <u>Deanna Gantso</u> Date: <u>02/15/2012</u>



1074168

Operator Name: Hughes Drilling Co, a General Partnership Lease Name: South McMillen Well #: I-2
 Sec. 11 Twp. 16 S. R. 20 East West County: Franklin

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: GammaRay/Neutron/CCL	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum GammaRay
--	---

CASING RECORD <input checked="" 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
Surface	9	7	10	32	Portland	10	50/50 POZ
Completion	5.6250	2.8750	8	785	Portland	117	50/50 POZ

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing	-			
___ Plug Back TD				
___ Plug Off Zone	-			

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
3	748.0-758.0	2" DML RTG	10

TUBING RECORD:		Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR.			Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
---	---	--



CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 36823

LOCATION Ottawa KS

FOREMAN Fred Mader

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4/12/12	3425	So McMillan # I-2	NE 11	16	20	FR
CUSTOMER						
MAILING ADDRESS						
CITY		STATE	ZIP CODE			
Wellsville		KS	66092			
		TRUCK#	DRIVER	TRUCK#	DRIVER	
		506	FREMAD	Safety	Mader	
		495	HARDEC	HJB		
		37548	RYASIN	KS		

JOB TYPE Longstring HOLE SIZE 5 7/8 HOLE DEPTH 615 CASING SIZE & WEIGHT 2 7/8 EUE
 CASING DEPTH 800 DRILL PIPE Pin in TUBING @ 795 OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 5' + 2 1/2" Plug
 DISPLACEMENT 4.62 DISPLACEMENT PSI _____ MIX PSI _____ RATE 5BPM

REMARKS: Establish circulation. Mix & Pump 100# Premium Gel Flush.
 Mix Pump 117 SKS 50/50 Por Mix Cement 2% Gel. Cement
 to surface. Flush pump & lines clean. Displace 2 1/2" 1
 Rubber plug to pin in casing. Pressure to 600# PSI.
 Hold pressure for 30 min MIT. Shut in casing

Customer Supplied H₂O.

Fred Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	495	1030 ⁰⁰
5406	20 mi	MILEAGE	495	80 ⁰⁰
5402	800	Casing footage		N/C
5407	1/2 minimum	Ton Miles	548	175 ⁰⁹
1184	117 SKS	50/50 Por Mix Cement		1281 ¹⁵
1183	297#	Premium Gel		623⁷
4402	1	2 1/2" Rubber Plug		28 ⁰⁰
247103			7.8%	SALES TAX
				ESTIMATED TOTAL
				2763 ⁹⁸

Revin 3737

AUTHORIZATION Chay Hughes

TITLE _____

DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

HUGHES DRILLING REPORT

4900 FSL 1875 FEL
API # 15-059-25888-00-

Well No. I-2 Size 7"
Farm South McMillen Feet 32.45
Circulated 10 sx cement

PERMANENT CSG.
Size 2 7/8" 80' EUE (new)
Feet 300' pipe T.D
Bolt at 795'

OPERATOR Hughes Drilling

T. D. at Completion 815'
Contractor HUGHES DRILLING CO.

STRATA THICKNESS	FORMATION DRILLED	T.D.
2	Soil	2
27	Clay	29
21	Shale	50
25	Lime	75
8	Shale	83
10	Lime	93
7	Shale	100
18	Lime	118
31	Shale	149
28	Lime	177
8	Shale	185
8	Sand	193
56	Shale	249
21	Lime	270
19	Shale	289
7	Lime	296
24	Shale	320
12	Lime	332
24	Shale	356
30	24 Lime	380
8	Shale	388
20	24 Lime	412
4	Shale	416
1	Lime	420
3	Shale	423
Herthel	16 Lime	429
116	Shale	545
1	Sand	549
30	Shale	579
3	Lime	582
8	Shale	590
1	Sand	591
10	Shale	601
10	Lime	611
10	Shale	621
4	Lime	625
6	Shale	631
8	Lime	639
13	Shale	652
3	Lime	655
7	Shale	662

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
1/6/12	0	2	Soil	(1) 21.5 - 21.5
	2	29	Clay	(2) 22.5 - 44.0
1/9/12	29	50	Shale	(3) 22.5 - 66.5
3/2	50	75	Lime	(4) 22.5 - 89.0
5/8	75	83	Shale (Slate 75-76)	(5) 22.5 - 111.5
PDC	83	93	Lime	(6) 22.5 - 134.0
	93	100	Shale (Sandy)	(7) 22.5 - 156.5
	100	118	Lime	(8) 22.5 - 179.0
	118	149	Shale	(9) 22.5 - 201.5
	149	177	Lime	(10) 22.5 - 224.0
	177	185	Shale	(11) 22.5 - 246.5
	185	193	Sand	(12) 22.5 - 269.0
	193	249	Shale	(13) 22.5 - 291.5
	249	270	Lime	(14) 22.5 - 314.0
	270	289	Shale	(15) 22.5 - 336.5
	289	296	Lime	(16) 22.5 - 359.0
	296	320	Shale	(17) 22.5 - 381.5
	320	332	Lime	(18) 22.5 - 404.0
	332	356	Shale (Broken 340-342)	(19) 22.5 - 426.5
30'	356	380	Lime	(20) 22.5 - 449.0
	380	388	Shale (Slate 386-387)	(21) 22.5 - 471.5
20'	388	412	Lime	(22) 22.5 - 494.0
	412	416	Shale (Slate 413-414)	(23) 22.5 - 516.5
	416	423	Lime	(24) 22.5 - 539.0
	420	423	Shale	(25) 22.5 - 561.5
Herthel	423	429	Lime	(26) 22.5 - 584.0
	429	545	Shale (Broken 431-435)	(27) 22.5 - 606.5

Drillers - Isaac Bunbark
Eric Schultz

HUGHES DRILLING REPORT

Well No. I-2
 Farm S. Maxwell
 SURFACE CASING
 Size _____
 Feet _____
 Circulated _____ sx cement

PERMANENT CSG. (new)
 Size 2 7/8" Bnd EUE
 Feet 890' pipe T.D.
 Bolt at 795'
 T. D. at Completion 815'
 Contractor HUGHES DRILLING CO.

OPERATOR Hughes Drilling

STRATA THICKNESS	FORMATION DRILLED	T.D.
7	Lime	664
10	Shale	674
7	Lime	686
3	Shale	689
#1 Squirted	oil sand	709
29	Shale	738
1	Lime	739
5	Shale	744
1	Lime	745
1	Shale	746
14	oil sand	760
32	Shale	792
4	sand	796
9	Shale	815
		T.D.

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
4/12	545	549	sand	(28) 22.5-629.0
	549	579	Shale	(19) 22.5-651.5
	379	582	Lime	(30) 22.5-674.0
	582	590	Shale	(31) 22.5-696.5
	590	591	sand (wayside oil show)	(32) 22.5-719.0
	591	601	Shale	(33) 22.5-741.5
	601	611	Lime	(34) 22.5-764.0
	611	621	Shale	(35) 22.5-786.5
	621	625	Lime	(36) 22.5-809.0
	625	631	Shale	T.D.
	631	637	Lime	
	637	652	Shale	
	652	655	Lime (Brown)	
	655	662	Shale (Slate 661-662)	
	662	669	Lime	
	669	679	Shale	
	679	686	Lime (soft 679-683 good bleed)	
	686	689	Shale	
#1 Squirted	689	709	oil sand (Remarks pg. 3)	
	709	738	Shale	
	738	739	Lime	
	739	744	Shale	
	744	745	Lime	
	745	746	Shale	
#2 Squirted	746	760	oil sand (Remarks pg. 4)	
	760	792	Shale	
#3 795	792	796	sand (Cattlemans Lamin - some bleeding)	
11/10/12	796	815	Shale	
			T.D.	

1-10-12 Set 890' of 2 7/8" Bnd EUE (new)
 used 3 centralizers
 Bolt in Bottom.



KANSAS CORPORATION COMMISSION 1074168
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5682
Name: Hughes Drilling Co, a General Partnership
Address 1: 122 MAIN
Address 2: _____
City: WELLSVILLE State: KS Zip: 66092 + 8522
Contact Person: Clay Hughes
Phone: (785) 883-2235
CONTRACTOR: License # 5682
Name: Hughes Drilling Co, a General Partnership
Wellsite Geologist: NA
Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SLOW
- 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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

<u>1/6/2012</u>	<u>1/12/2012</u>	<u>2/15/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-059-25888-00-00

Spot Description: _____
SW NE NW NE Sec. 11 Twp. 16 S. R. 20 East West
4900 Feet from North / South Line of Section
1875 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Franklin

Lease Name: South McMillen Well #: I-2

Field Name: Leloup

Producing Formation: Bartlesville

Elevation: Ground: 971 Kelly Bushing: 0

Total Depth: 795 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 0 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: 0

feet depth to: 32 w/ 10 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 1500 ppm Fluid volume: 80 bbls

Dewatering method used: Evaporated

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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: Deanna Gerriso Date: 02/15/2012



1074168

Operator Name: Hughes Drilling Co, a General Partnership Lease Name: South McMillen Well #: I-2
 Sec. 11 Twp. 16 S. R. 20 East West County: Franklin

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: GammaRay/Neutron/CCL	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum GammaRay
--	---

CASING RECORD <input checked="" 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
Surface	9	7	10	32	Portland	10	50/50 POZ
Completion	5.6250	2.8750	8	785	Portland	117	50/50 POZ

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
____ Perforate				
____ Protect Casing	-			
____ Plug Back TD				
____ Plug Off Zone	-			

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
3	748.0-758.0	2" DML RTG	10

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls. Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <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 (Specify) _____	PRODUCTION INTERVAL: _____ _____
---	---	--



CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 36823

LOCATION Ottawa KS

FOREMAN Fred Mader

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1/12/12	3425	So McMillan # I-2	NE 11	16	20	FR
CUSTOMER						
Mailing Address						
CITY						
STATE						
ZIP CODE						
TRUCK #						
DRIVER						
TRUCK #						
DRIVER						

CUSTOMER Hughes Drilling
MAILING ADDRESS 122 Main St.
CITY Wellsville STATE KS ZIP CODE 66092
TRUCK # 506 DRIVER FREMAD TRUCK # Safety Mtg DRIVER
TRUCK # 495 DRIVER HARDEC TRUCK # H/B DRIVER
TRUCK # 548 DRIVER RYASIN TRUCK # KS DRIVER

JOB TYPE Longstring HOLE SIZE 5 7/8 HOLE DEPTH 615 CASING SIZE & WEIGHT 2 7/8 EUE
CASING DEPTH 800 DRILL PIPE Pin in TUBING @ 795 OTHER
SLURRY WEIGHT SLURRY VOL WATER gal/sk CEMENT LEFT in CASING 5' + 2 1/2" Plug
DISPLACEMENT 4.62 DISPLACEMENT PSI MIX PSI RATE 5BPM

REMARKS: Establish circulation. Mix & Pump 100# Premium Gel Flush.
Mix Pump 117 SKS 50/50 Por Mix Cement 2% Gel. Cement
to surface. Flush pump & lines clean. Displace 2 1/2" 1
Rubber plug to pin in casing. Pressure to 600# PSI.
Hold pressure for 30 min MIT. Shut in casing

Customer Supplied H2O.

Fred Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	495	1030 ⁰⁰
5406	20 mi	MILEAGE	495	80 ⁰⁰
5402	800	Casing footage		N/C
5407	1/2 minimum	Ton Miles	548	175 ⁰⁹
1184	117 SKS	50/50 Por Mix Cement		1281 ¹⁵
1183	297#	Premium Gel		62 ³⁷
4402	1	2 1/2" Rubber Plug		28 ⁰⁰
<u>247103</u>			7.5%	SALES TAX
				ESTIMATED TOTAL
				<u>2763⁹⁹</u>

Revin 3787

AUTHORIZATION Clay Hughes TITLE DATE

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

HUGHES DRILLING REPORT

Well No. I-2 Size 7"
 Farm South McMillen Feet 32.45
 Circulated 10 sx cement

PERMANENT CSG.
 Size 2 7/8" 8.5d EUE (new)
 Feet 800' pipe T.D
 Bolt at 795'

OPERATOR Hughes Drilling

T. D. at Completion 815'
 Contractor HUGHES DRILLING CO.

4900 FSL 1875 FEL
 API # 15-059-25888-00-

STRATA THICKNESS	FORMATION DRILLED	T.D.
2	Soil	2
27	Clay	29
21	Shale	50
25	Lime	75
8	Shale	83
10	Lime	93
7	Shale	100
18	Lime	118
31	Shale	149
28	Lime	177
8	Shale	185
8	Sand	193
56	Shale	249
2	Lime	270
19	Shale	289
7	Lime	296
24	Shale	320
12	Lime	332
24	Shale	356
30	24 Lime	380
8	Shale	388
20	24 Lime	412
4	Shale	416
1	Lime	420
3	Shale	423
Herth	16 Lime	429
116	Shale	545
1	sand	549
30	Shale	579
3	Lime	582
8	Shale	590
1	sand	591
10	shale	601
10	Lime	611
10	Shale	621
4	Lime	625
6	Shale	631
8	Lime	639
13	Shale	652
3	Lime	655
7	Shale	662

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
1/6/12	0	2	Soil	(1) 21.5 - 21.5
	2	29	Clay	(2) 22.5 - 44.0
1/9/12	29	50	Shale	(3) 22.5 - 66.5
3/2	50	75	Lime	(4) 22.5 - 89.0
5/8	75	83	Shale (Slate 75-76)	(5) 22.5 - 111.5
PDC	83	93	Lime	(6) 22.5 - 134.0
	93	100	Shale (Sand)	(7) 22.5 - 156.5
	100	118	Lime	(8) 22.5 - 179.0
	118	149	Shale	(9) 22.5 - 201.5
	149	177	Lime	(10) 22.5 - 224.0
	177	185	Shale	(11) 22.5 - 246.5
	185	193	Sand	(12) 22.5 - 269.0
	193	249	Shale	(13) 22.5 - 291.5
	249	270	Lime	(14) 22.5 - 314.0
	270	289	Shale	(15) 22.5 - 336.5
	289	296	Lime	(16) 22.5 - 359.0
	296	320	Shale	(17) 22.5 - 381.5
	320	332	Lime	(18) 22.5 - 404.0
	332	356	Shale (Broken 340-342)	(19) 22.5 - 426.5
30'	356	380	Lime	(20) 22.5 - 449.0
	380	388	Shale (Slate 386-387)	(21) 22.5 - 471.5
20'	388	412	Lime	(22) 22.5 - 494.0
	412	416	Shale (Slate 413-414)	(23) 22.5 - 516.5
	416	420	Lime	(24) 22.5 - 539.0
	420	423	Shale	(25) 22.5 - 561.5
Herth	423	429	Lime	(26) 22.5 - 584.0
	429	545	Shale (Broken 431-435)	(27) 22.5 - 606.5

Orillens - Isaac Bunbury
 Eric Schultz

HUGHES DRILLING REPORT

FR Co., Kansas
 4900 FSL 1875 FEL
 API # 15-059-25888-00-00

Well No. I-2 SURFACE CASING Size.....
 Farm S. Maxwell Feet.....
 Circulated _____ sx cement

PERMANENT CSG. (New)
 Size 2 7/8" Bnd EUE
 Feet 890' pipe T.D.
 Bolt at 795'

T. D. at Completion 815
 Contractor HUGHES DRILLING CO.

OPERATOR Hughes Drilling

STRATA THICKNESS	FORMATION DRILLED	T.D.
7	Lime	664
10	Shale	679
7	Lime	686
3	Shale	689
#1 squirrel	oil sand	709
29	shale	738
1	Lime	739
5	Shale	744
1	Lime	745
1	Shale	746
14	oil sand	760
32	shale	792
4	sand	796
9	shale	815
		T.D.

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
4/12	545	549	sand	(28) 22.5-629.0
	549	579	shale	(29) 22.5-651.5
	579	582	Lime	(30) 22.5-674.0
	582	590	shale	(31) 22.5-696.5
	590	591	sand (wayside oil show)	(32) 22.5-719.0
	591	601	shale	(33) 22.5-741.5
	601	611	Lime	(34) 22.5-764.0
	611	621	shale	(35) 22.5-786.5
	621	625	Lime	(36) 22.5-809.0
	625	631	shale	T.D.
	631	637	Lime	
	637	652	shale	
	652	655	Lime (Brown)	
	655	662	shale (slate 661-662)	
	662	669	Lime	
	669	679	shale	
	679	686	Lime (soft 679-683 coal Bed)	
	686	689	shale	
#1 squirrel	689	709	oil sand (Remarks pg. 3)	
	709	738	shale	
	738	739	Lime	
	739	744	shale	
	744	745	Lime	
	745	746	shale	
#2 squirrel	746	760	oil sand (Remarks pg. 4)	
	760	792	shale	
#3 785	792	796	sand (gentlemen's Laminar some bleeding)	
11/10/12	796	815	shale	
			T.D.	

1-10-12 Set 890' of 2 7/8" Bnd EUE (New)
 used 3 centralizers
 Bolt in Bottom.