

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1262182
OIL & GAS CONSERVATION DIVISION

Form ACO-1
November 2016
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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

1262182



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

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
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) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Arnold W 1-1
Doc ID	1262182

All Electric Logs Run

Dual Spaced Neutron Spectral Density Log
Array Compensated True Resistivity Log
Dorehole Compensated Sonic Array Log
Microlog

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Arnold W 1-1
Doc ID	1262182

Tops

Name	Top	Datum
Heebner (base)	3710	-357
Lansing	3765	-412
KS City A	4190	-837
KS City (base)	4335	-982
Marmaton	4366	-1013
Ft Scott	4531	-1178
Morrow	5033	-1680
Chester	5506	-2153
St. Genevieve	5568	-2215
St. Louis	5618	-2265
RTD	5691	-2338
LTD	5653	-2300



CEMENTING LOG

STAGE NO. _____

CEMENT DATA:

Date 5-31-15 District Oakroy Ticker No. 064736
 Company Bereco Rig Bereco 1 Spacer Type _____
 Lease Arnold W Well No. 1-1 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG
 County Stanton State KS Location 1-29-41 Johnson 2.5 3/4 W NINTO Field _____
 CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 8 5/8 Type _____ Weight _____ Collar _____

LEAD: Pump Time _____ hrs. Type 65/35 Lagel
3900 1/4" flow sec Excess _____
 Amt. 695 Sks Yield 1.99 ft³/sk Density 12.96 PPG
 TAIL: Pump Time _____ hrs. Type com
 Excess _____
 Amt. 150 Sks Yield 1.33 ft³/sk Density 14.9 PPG
 WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls.

Casing Depths: Top KB Bottom _____

Pump Trucks Used 431
 Bulk Equip. 457
890

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size 12 1/4 T.D. 1703 ft. P.B. to _____ ft.

Float: Equip: Manufacturer Weather Ford
 Shoe: Type Cement nose Depth 1702.36
 Float: Type APU Inset Depth 1720.54
 Centralizers: Quantity 3 Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type Water Amt. 10577 Bbls. Weight _____ PPG
 Mud Type _____ Weight _____ PPG

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. 1.0637 Lin. ft./Bbl. _____
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

COMPANY REPRESENTATIVE _____ CEMENTER Andrew

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	
						Start mixing life
						Life mixed start com
						com mixed
						Stop pump
						Release plug
						Start Displacement
				10		
				10		
				10		
				10		
				10		
				10		
				10		
				10		
				10		
				5		
						Plug landed
						Float held
						Cement did circulate



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: ARNLDW1-1DST1

TIME ON: 0720
TIME OFF: 1930

Company BEREXCO LLC Lease & Well No. ARNOLD W #1-1
Contractor BEREDCO LLC RIG 1 Charge to BLBEREXCO LLC
Elevation 3341 GL Formation MORROW SDST Effective Pay _____ Ft. Ticket No. M766
Date 6/10/2015 Sec. 1 Twp. _____ 29 S Range _____ 41 W County STANTON State KANSAS
Test Approved By EDWIN H. GRIEVES Diamond Representative MIKE COCHRAN

Formation Test No. 1 Interval Tested from 5485 ft. to 5520 ft. Total Depth 5520* ft.
Packer Depth 5480 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 5485 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5467 ft. Recorder Number 5448 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 5487 ft. Recorder Number 0063 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEM Viscosity 65 Drill Collar Length 615 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 500 P.P.M. Drill Pipe Length 4838 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 3 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 35 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WSB THAT DIED RIGHT AWAY (NO BB)
2nd Open: WSB THAT DIED RIGHT AWAY (NO BB)

Recovered <u>~2</u> ft. of <u>VSOSWM 1% WATER, 99% MUD W/ A VERY THIN SCUM OF OIL</u>	Price Job Other Charges Insurance Total
Recovered <u>~2</u> ft. of <u>TOTAL FLUID</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: <u>*STRAP 36' SHORT</u>	
TOOL SAMPLE: <u>~100% MUD W/ A TR OF WTR & SOME OIL SPECKS</u>	

Time Set Packer(s) 12:45 P.M. ^{A.M.}/_{P.M.} Time Started Off Bottom 3:45 P.M. ^{A.M.}/_{P.M.} Maximum Temperature 126°F

Initial Hydrostatic Pressure..... (A) 2567 P.S.I.
Initial Flow Period..... Minutes 30 (B) 14 P.S.I. to (C) 17 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 21 P.S.I.
Final Flow Period..... Minutes 30 (E) 16 P.S.I. to (F) 16 P.S.I.
Final Closed In Period..... Minutes 60 (G) 16 P.S.I.
Final Hydrostatic Pressure..... (H) 2534 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.

DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	BEREXCO LLC	Job Number	M766
Well Name	ARNOLD W #1-1	Representative	MIKE COCHRAN
Unique Well ID	DST#1 5485-5520 MORROW SDST	Well Operator	BEREXCO LLC
Surface Location	SEC.1-29S-41W STANTON CO.KS.	Report Date	2015/06/10
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	EDWIN H. GRIEVES
		Test Unit	NO. 3

Test Information

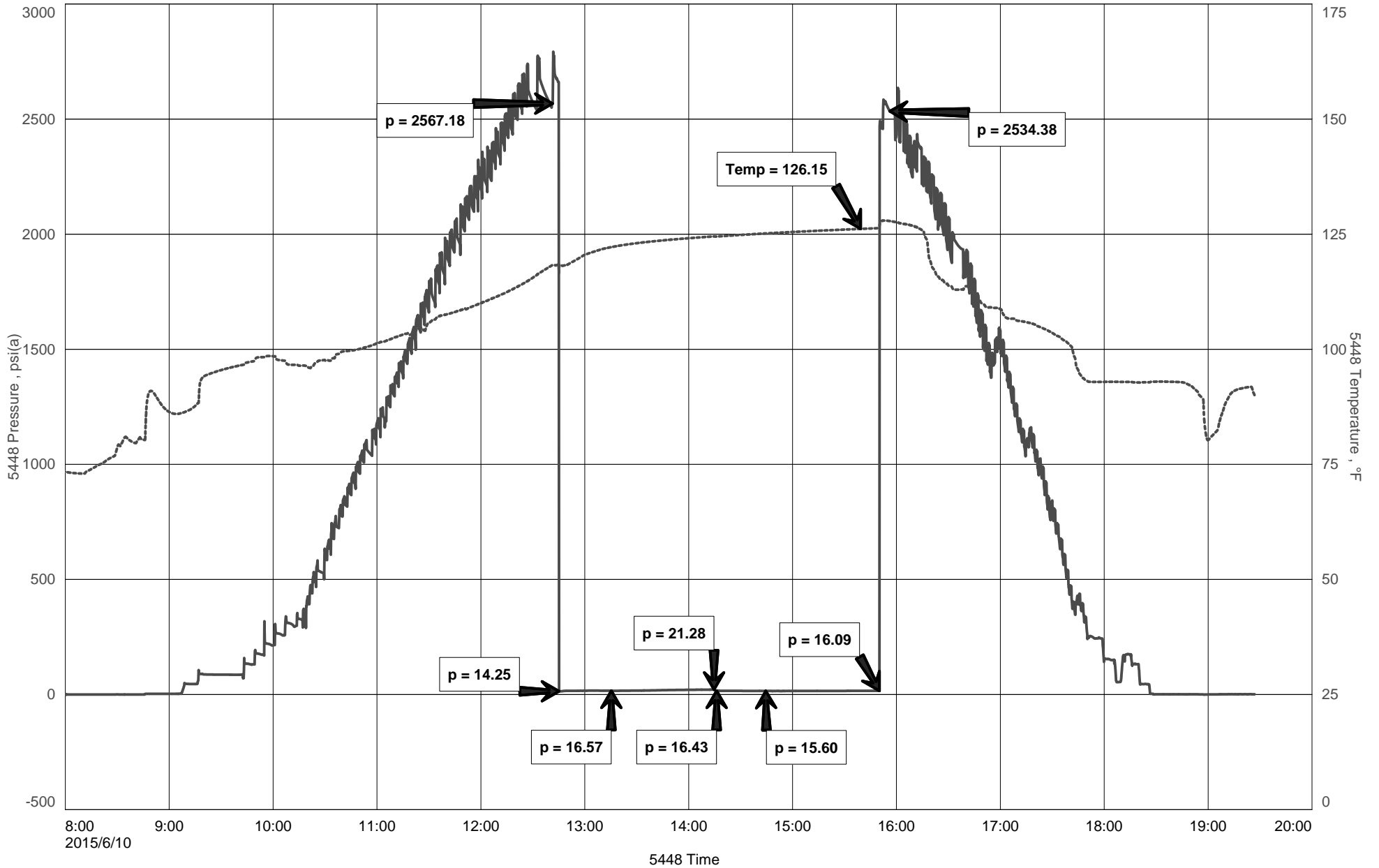
Test Type	CONVENTIONAL		
Formation	DST#1 5485-5520 MORROW SDST		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2015/06/10	Start Test Time	07:20:00
Final Test Date	2015/06/10	Final Test Time	19:30:00
		Well Fluid Type	01 Oil
Gauge Name	5448		
Gauge Serial Number			

Test Results

Remarks **RECOVERED:**
~2' VSOSWM 1% WATER, 99% MUD W/ A VERY THIN SCUM OF OIL
~2' TOTAL FLUID

TOOL SAMPLE: ~100% MUD W/ A TR OF WTR & SOME OIL SPECKS

ARNOLD W #1-1



VEL
FILE

COMPANY **BEREXCO**
 LEASE Arnold W NO. 1-1
 LOCATION 335' FSL + 1400' FWL
 SEC. TWP. 29S RNG. 41W
 COUNTY Stanton STATE Kansas
 FIELD Arroyo Northeast

ELEVATIONS
 KB 3353
 DF 3351
 GL 3341

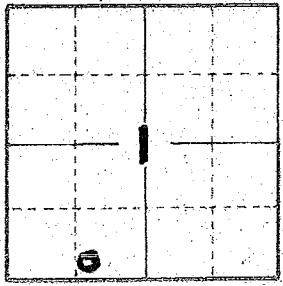
MEASUREMENTS ARE
 ALL FROM KB

CONTRACTOR Berexco Drilg. Rig #1
 COMM. 5-27-2015 COMP. 6-12-2015
 RTD 5691 LTD 5653
 No. of DST'S 1 No. of CORES None

CASING RECORD
8 3/8" at 1701 w/ 795 SX.
 ___ at ___ w/ ___ SX.
 ___ at ___ w/ ___ SX.
 ___ at ___ w/ ___ SX.
 EL. LOG A.C.T. Res. SP-GR
REN-NEWT-GR-Caliper
ML-Sonic

SAMPLES SAVED FROM 3600 TO TD
 DRILLING TIME KEPT FROM 3600 TO TD
 SAMPLES EXAMINED FROM 3600 TO TD
 GEOLOGICAL SUPERVISION FROM 3600 TO TD
 GEOLOGIST ON WELL Edwin H. Grieves

FORMATION TOPS	SAMPLE	LOG	SUBSEA
<u>Base Heebner</u>	<u>3749</u>	<u>3710</u>	<u>- 357</u>
<u>Lansing Fm.</u>	<u>3816</u>	<u>3765</u>	<u>- 412</u>
<u>Kansas City "A"</u>	<u>4232</u>	<u>4190</u>	<u>- 837</u>
<u>BKC</u>	<u>4379</u>	<u>4335</u>	<u>- 982</u>
<u>Marmaton Fm</u>	<u>4400</u>	<u>4366</u>	<u>- 1013</u>
<u>Ft Scott</u>	<u>4569</u>	<u>4531</u>	<u>- 1178</u>
<u>Morrow Fm</u>	<u>5066</u>	<u>5033</u>	<u>- 1680</u>
<u>Chester</u>	<u>5550</u>	<u>5506</u>	<u>- 2153</u>
<u>St. Genevieve</u>	<u>5614</u>	<u>5568</u>	<u>- 2215</u>
<u>St. Louis</u>	<u>5665</u>	<u>5618</u>	<u>- 2265</u>
<u>TD</u>	<u>5691</u>	<u>5653</u>	

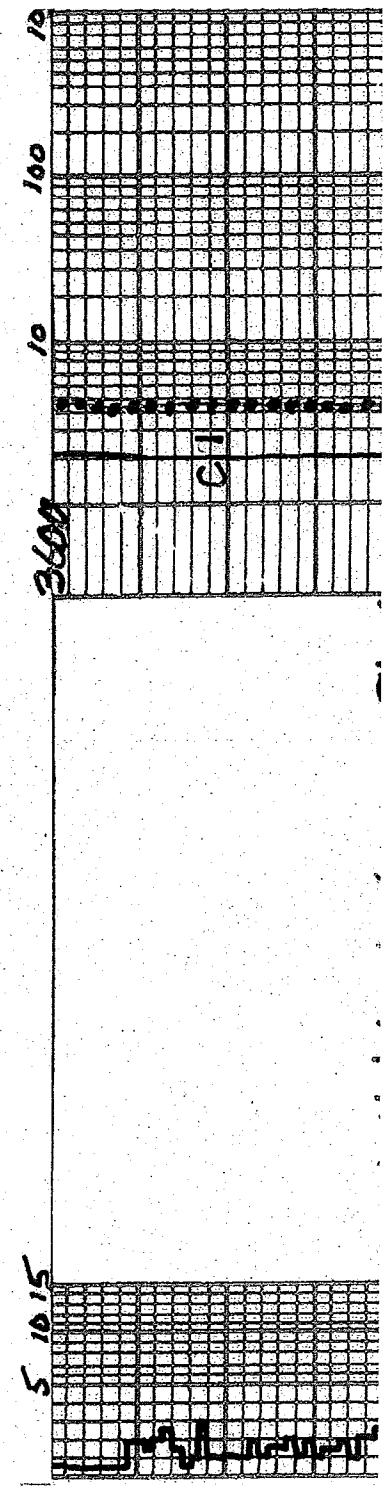


API# 15-187-21321

REMARKS Earth-Tech had an unmanned gas detection trailer on this well from 3600 feet to total depth.

Note: E-log Depths are 36 to 38 feet high to Sample Log Depths.

*Edwin H. Grieves
 Edw H. Grieves
 Edw H. Grieves
 Edw H. Grieves*



Interbedded Lmsts w/ scattered chert
① Slower Dalg. Lms. H. gray. grading to tan
crypto to v. v. tan. xln.; tes. sub-chlk
sub-sucro & ph. chert; tes. to zbn
w/ ph. autom. gdl. tes. to oolitic IP's;
dub. H. yellow to dub. yellow. fluor.; No cut.

② Faster Dalg. Lms. tes. to zbn. wht to
crm. chlk & grayish. tan to tan;
crypto to v. v. tan. xln.; sub-chlk;
sub-sucro. to sucro. idub. yellow
dub. H. yellow. fluor.; No cut; abn. pr. to
fx. & tes. gd. to excel. micro-pp. to
interm. por.

③ Scattered tes chert cam. to
tan; opaque

3700

Braschebner
3749-396

Sh. v. del. gray. to black-carb.

Sh. H. gray. to H. green; mushy & soft when
wet; tes. silty

Lms. hyp. tes. wht to can-chlk & crypto tan
crypto. to v. v. tan. xln.; sub-chlk. sub-sucro
to tes. sucro. dub. yellow. fluor.; No cut
scattered tes. v. pr. micro-pp. por.

Lms. grayish. tan to tan; crypto to v. v. tan.
xln.; tes. sub-chlk. sub-sucro & ph. chert;
dub. yellow. fluor.; No cut; No vis. por.

Sh. H. med. & tes. del. gray-slit. tan. calc. 3800

C1

Lausling "FM"
3816-463

Interbedded Limestones

① Slower Dalg. Lms. H. gray to tan;
crypto. to v. v. tan. xln.; tes. sub-chlk;
sub-sucro. ph. chert. & tes. sub-lithoge;
scattered tes. to tes. w/ ph. autom.
oolites to oolitic IP's. dub. H. yellow.
to H. yellow. fluor.; No cut; No vis. por.

② Faster Dalg. Lms. tes. to hyp. tes. wht.
to crm. chlk and grayish. tan to tan
crypto. to v. v. tan. xln.; sub-chlk;
sub-sucro to sucro. tes. to ss. IP's
scattered tes. ph. autom. oolitic
to oolitic IP's. dub. yellow. fluor.; No cut. scattered tes.

(3) PASTERLING. LMS. TRSTO. NOZ. TRS. UNIT.
 To cAm - chalk and grayish. Tan to tan
 crypto. to uv. fn. xln. sub-chlk.
 sub-sucro to suco. - trs. foss. IP's
 scattered trs ph an. You oolitic
 to oolitic IP's, dw. yel. to dw. H. yel.
 Fluor. No cut. scattered trs
 to hv. trs. P.R. to tx micro-pp. por
 w/ poss. interxln IP's

3900

WOB 3000
 RPM 65-70
 SPAM 60
 PP 1700

4000

Lms hv. tas to v. abn. wht. to cem-chalk
 and tan; crypto. to uv. fn xln. v.
 v. to extly oolitic for sl; tan
 oolitic; matrix trs. chlk, sub-sucro
 to suco + trs. p. acety. yel. to
 glau. yel. fluor. mottled IP's; No cut
 zbn. pr to excel oolitic por w/
 trs pr to tx micro-pp por. ext. redm

Lms. similar 4007-4039
 w/ less oolitic + more oolitic
 of por w/ corresponding reduction

Lms. tan to H. gray. mottled IP's; crypto
 to uv. fn. xln. oolitic IP's; tan to fl.
 gray; sub-chlk, sub-sucro + packed
 dw. yel. fluor. IP's; No cut, No visor
 becoming shly IP's w zbn sh. IP's
 med. to dw. gray, sl. to v. calc.

Cl

4100

WOB 3200
 RPM 340
 SPAM 75
 PP 80
 1000

Interbedded Limestones
 ① Slower Lms similar 4066-4176
 ② Faster Dabg Lms. hyp. has to abn w/lt. cam. chlk + tan; crypto to v. v. xln; pol. in. spk. sl. oolitic IP's; sl. to v. foss. IP's; dul. yel. to yel-fluor.; No Cut; hyp. has PR. to fl. 4-7es. gd. micro. Aptaer por.

Lms. similar 4066-4176

Lms. abn. wht. to cream-chlk + cream to tan; crypto to v. v. xln; v. to ext. ly. oolitic; matrix oolitic; for v. to ext. ly. oolitic; matrix sub-chlky sub-sucro. to sucro. + pac. lth. yel. to dul. yel. fluor.; No Cut; abn. CR to exel. oolitic; st. por. 4-7es. por. to CR + TRsgd. micro - pp to inter. v. in. por. in matrix

Interbedded Limestones
 ① Lms. tan, grayish. IP's; crypto. to v. v. xln; sub-chlk.; sub-sucro + pac. lth. dul. H. yel. fluor. IP's; No Cut; No Vis POR
 ② Lms. H. to med. gray. tanish IP's; sl. to v. shly inck. w/ depth; crypto. xln; sub-chlk. + pac. shly + pac. lth.; No Fluor.; No Cut; No Vis POR

Sh med to v. dark. gray - sl. to v. calc in parts

Lms. lg. gray to tan, crypto. to v. xln. sub-sucro., pac. lth. + st. sub-lithogr. dul. yel. fluor. IP's; No Cut; No Vis POR

4200

Kansas City 7A
 4292-879

WOB 38000
 RPM 70
 RPM 60
 RPM 1100

G1

2441

G2

4300

17467

BK

4379-1026

G3

Max. in. 17

4400

4400-1047

WOB 36000
 RPM 80
 RPM 60

Interbedded Limestones and Shales

- ① Lms. sl. tns. wht. to cream. chlk. IP's + tan to grayish. tan; crypto. to w. fu. xln.; tns. sub-chlk; sub-sucra, packstr and tns. sub-lithogr; tns. to abn. phantom oolitic to tns. oolitic IP's; dub. yel. fluor; No cut; No Vis. por
- ② Lms. lt. to drk. gray. - sl. to extly. shly. grading to highly calc. Shs.; crypto. to sub-chlk to r. shly; packstr. and sub-lithogr. v. scattered. tns. v. drk. yel. fluor; No cut No Vis. por
- ③ Sh. med. to v. drk. gray. - sl. to extly. calc. grading to highly shly. Lmsts.
- ④ Scattered Shs. v. drk. gray. to black - carb.

4700

4800

4900

WGS 40000
RPM 75
SPM 60
PP 1100

WGS 40000
RPM 75
SPM 58
PP 1000

C2

C3

1

Lms. & Shs similar 4585-4967
Predominately Shs. v. drk. gray
to black carb.

Limestones w/ thin interbeds Shales

- ① Lms. H. to med. gray. sli. to extly shly and hvy. tes. gray. sh. tan to tan, crypta. to v. fn. v. ln; sub-chalky or shly. tess. sub-succ. packstr. & tes. sub-lithogr.; No fluv. or. No cut; No vis. por
- ② scattered thin interbeds Shales med. to v. drk. gray. - v. to extly. calc. grading. to shly. Lmsts.
- ③ scattered thin interbeds Shales v. drk. gray. to black-carb.

Lmsts w/ interbeds Shales similar
4996-5066 w/ large increase
in amount & thickness of
carb. black Shales

5119-5153 sh. tes. med. gray - soft
w/ silky luster IP's & drk. to v. drk.
gray. to tes. black-carb.

5153-5156 Siltstn v. H. gray;
v. fn. to fn. gr. silt; scattered.
sli. tes. glauco. chlorite
No fluv. or. No cut; v. sl. tes
v. v. fn. micro-p. p. por. IP's

WOB 40000
RPM 75
SPM 60
PP 1100

Black Sh

Blk Sh

WOB 40000
RPM 70
SPM 54
PP 1000

More w/ in
5066-1718

Shale

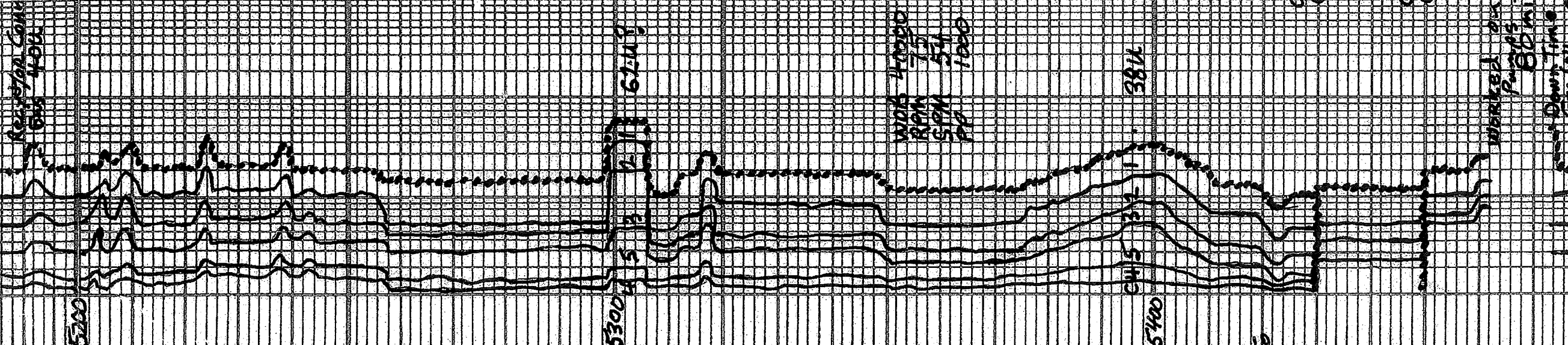
Blk Sh

Show 94

Recycle 4

Recycling Comp
500 400

5000



Shs. trs. med. gray - soft w/silky luster; predominately dark to v. dark gray splintery IP's trs. pyrite w/scattered trs. Lms. H. to med. gray to grayish tan to tan; crystals to v. v. f. n. x. l. n. trs. calcite (tan + gray); trs. foss.; sub. suoro.; packstr. to trs. sub-lithogr.; trs. dual. H. yel. fluor.; No cut; No vis. por.

Shs. med. gray - soft w/silky luster + dark gray - soft, splintery IP's w/trs. lm. gas. becoming Lm. Sdst w/ gray sh. cement No fluor.; No cut; No vis. por.

Lm. Sdst. H. to med. gray; tanish IP's v. f. n. to med. gray composed Lm. gas, foss. frags. + calcite - gray (gas crystals to v. v. f. n. x. l. n.) scattered trs. glauc +/or chlorite; matrix packstr. y Sh. trs. Qtz. gas. f. n. to med. - 29; trs. dual. yel. fluor.; No cut; No vis. por.

5432-5481 Sh. sl. to med. gray - soft w/silky luster and dark to v. dark gray - splintery IP's

5481-5489 Qtz + Lm Sdst 0-100% gas to 0 to 100% Lm. gas. H. gas. to tan; v. v. f. n. to f. n. + trs. med. gr. gas. 29; all pale; soft; Lm. gas.

WPA 4000
ROM 15
SON 54
PP 1000

marked 25
Pumps
80m

5481-5489 Qtz + Lm Sdst
 0-100% Qtz 90% to 0 to 100% Lm grs.
 H. gray to tan, v. v. to f. + tes med gr.
 Qtz grs ang, all prly sort; Lm grs
 composed Lm grs, fossil frags + tes
 oolites; matrix sub-chlk, packstone and
 hv tes. Sh. i. tes to hv tes. glauc.
 40% Chlorite IP's; silt. tes d. l. H. yel
 floor; No cut; No Vis Por

5489-5571 Sh. similar 5432-5481
 5571-5576 Qtz. sdst. li. tan from
 oil str. v. v. f. to f. w/ hv. tes med.
 gr. ang. prly sort. sort. g. d. oil
 order; v. bat yel. fluor; flush to g. and
 staining cuts; abn. pr. fr. to g. and
 + hv. tes. Excel. micro. pp. to intergr.
 Pow; some loose Qtz grs, w/ fr. to
 f. n. + tes med; ang. clear

5516-5529 Sh med. gray - soft w/ shly
 lustered IP's + det to v. dk. gray, splinter
 IP's w/ hv. tes Qtz sdst + matrix
 5411-5416 w/ scattered, tes sh grs
 med gray, med gr. ang to rounded
 Sh med gray - soft w/ shly lustered, splintered IP's

Sh + Lms Conglomerate
 ① Sh. Red + maroon silt. IP's
 (w/ abn med. to drakey in prob front)
 MORROW

② Lms. gray to tan, tes. pinkish crystals
 to v. v. f. in sub-succe; packstone
 + tes sub-litho; id. yel. floor;
 No cut; No Vis Por

Sh + Lm conglomerate similar 5566-87
 w/ tes to abn. Lms. H. gray to tan, pinkish
 IP's, crystals to v. v. f. in. x. h. j. Excel.
 micro-oolitic + silt. Qtz sdst - v. large
 ang. i. matrix chlk, sub-chlk and
 sub-succe; tes. v. d. yel. floor
 No cut; No Vis Por

Lms. H. gray to tan, crystals. to v. v. in. x. h.
 v. to extly micro-oolitic + Qtz sdst
 v. v. f. in. gr. ang. i. matrix sub-chlk;
 sub-succe + tes packstone;
 d. l. H. to tes. H. yel. floor; No cut
 No Vis Por.

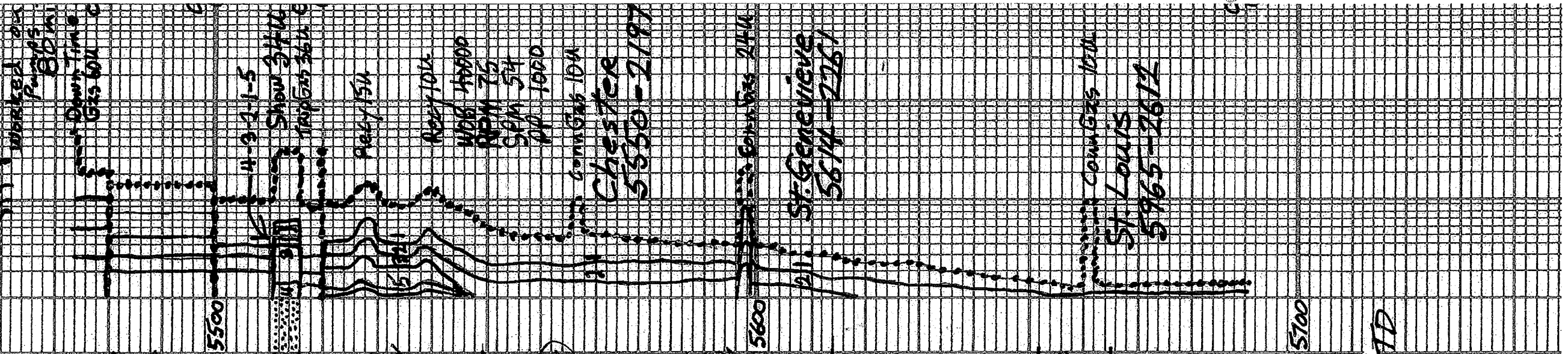
Lms. similar 5614-5652 w/ tes
 to abn wht. to com-chlk; micro-oolitic
 + Qtz. Sh. w/ f. gr. - ang. w/ tes small
 to med. oolitic; d. l. H. yel. floor No cut
 No Vis Por

Lms. tes. to hv. tes. wht to com-chlk + tan
 grayish. IP's, crystals. to v. v. in. v. v. to
 Extly. oolitic (some med to g.) matrix
 chlk; sub-chlk; sub-succe + packstone.
 d. l. H. yel. floor; No cut; No Vis Por.
 w/ tes to abn. chert gray; tan to amber
 + Kausi. to opp w

TD 5691

7 7/8" Bit In Poi

#	Dev. Suarv	in	out
# 1	New QT	GT25YG 1703	3312
# 2	New QT	GT25YG 3312	5520
# 3	ReRun Bit #1	5520	5691 TD
	Dev. Suarv	City Points	
1.	502 1/4"	1	5430
2.	1000 1/4"	2	5450
3.	1703 1"	3	5480
4.	5489 5 1/4"	4	5500
5.	5691 10 7/8"	5	5520



- 3. 1703 1° 3 5480
- 4. 5489 5 1/4° 4 5500
- 5. 5691 10° TD 5 5520

DST#1 MORROWSD 6 5691 TD 5485-5520

10 Weak Surf. blow died right away
 FO Weak Surf. blow died right away
 Rec ± 2 feet

1st wtr? 99% Mud w/
 v. thin sscum of oil

Tool Sample ± 100% Mud w/Tras
 wtr & some oil specks

IHP 2567 #

IFP 14-17# in 30 min

ISIP 21# in 60 min

FFP 16-16# in 30 min

FSIP 16# in 60 min

FHP 2534#

Daily Delq. Progress

- 1. 3600 6:51AM 6-4-15
- 2. 3611 7:00AM 6-4-15
- 3. 3962 7:00AM 6-5-15
- 4. 4327 7:00AM 6-6-15
- 5. 4708 7:00AM 6-7-15
- 6. 5048 7:00AM 6-8-15
- 7. 5480 7:00AM 6-9-15
- 8. 5520 7:00AM 6-10-15
- 9. 5599 7:00AM 6-11-15
- 10. 5691 7:00AM 6-12-15

Date	6-4 7:30A	6-5 9:35A	6-6 10:15A	6-7 10:15A	6-8 5:40P	6-9 11:10A	6-10 12:15P	6-11
Depth	3610	3997	4397	4760	5249	5474	5520	5691
WT	9.0	9.15	9.15	9.05	9.3	9.2	9.2	9.25
Vis	50	49	94	46	54	62	64	57
PV	16	15	24	14	17	18	19	17
YP	15	16	26	13	19	18	22	18
GS	1 1/2	1 1/4	1 1/2	1 1/4	1 1/2	1 1/2	1 1/2	1 1/2
WL	7.2	6.4	7.6	8.0	8.4	8.4	8.4	8.4
cake	1/32	1/32	1/32	1/32	1/32	1/32	1/32	1/32
pH	11.0	11.5	10.0	9.5	9.5	9.0	9.5	9.0
Chl	500	600	1400	1400	500	1100	700	500
Ca	20	20	60	20	20	40	40	20
LCM	5	5	4.5	18.0	19.0	15.5	14.5	12.0

IFP 14-17# in 30 min
 ISIP 21# in 60 min
 FFP 16-16# in 30 min
 ISIP 16# in 60 min
 FHP 2534#

Daily Orlg. Progress

1. 3600 6:51AM 6-4-15
 2. 3611 7:00AM 6-4-15
 3. 3962 7:00AM 6-5-15
 4. 4327 7:00AM 6-6-15
 5. 4708 7:00AM 6-7-15
 6. 5048 7:00AM 6-8-15
 7. 5490 7:00AM 6-9-15
 8. 5520 7:00AM 6-10-15
 9. 5599 7:00AM 6-11-15
 10. 5691 7:00AM 6-12-15

Date	6-4 7:30A	6-5 9:35A	6-6 10:35A	6-7 10:35A	6-8 5:40P	6-9 10:30A	6-10 12:15P	6-11 11:30A
Depth	3610	3997	4399	4760	5249	5714	5520	5691
WT	9.0	9.15	9.15	9.05	9.3	9.2	9.2	9.2
Vis	50	49	94	46	54	62	64	57
PV	16	15	24	14	17	18	19	17
YP	15	16	26	13	19	18	22	18
GS	14 1/35	14 1/34	14 1/34	14 1/37	18 1/32	17 1/33	19 1/36	16 1/31
NL	7.2	6.4	7.6	8.0	8.4	8.4	8.4	8.4
Calc	1/32	1/32	1/32	1/32	1/32	1/32	1/32	1/32
pH	11.0	11.5	10.0	9.5	9.5	9.0	9.5	9.0
Chl	500	600	1400	1400	500	1100	700	500
Ca	20	20	60	20	20	40	40	20
LCM	5	5	4.5	18.0	13.0	15.5	14.5	12.0

OPERATOR Berexco LLC LOCATION 335'FSL + 1400'FWL
 LEASE Arnold, W NO. 1-1 TWP. 29S RNO. 41W
 ELEVATION 3353KB RTD 5691 COUNTY Stanton STATE Kansas