



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1087946
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: _____

1087946

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 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				

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

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 <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner

Sam Brownback, Governor

July 25, 2012

Glenna Lowe
Trans Pacific Oil Corporation
100 S MAIN STE 200
WICHITA, KS 67202-3735

Re: ACO1
API 15-135-25426-00-00
RUPP 'A' 1-28
SW/4 Sec.28-17S-24W
Ness County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Glenna Lowe

DIAMOND TESTING

General Information Report

General Information

Company Name TRANS PACIFIC OIL CORPORATION
Contact BETH ISERN
Well Name RUPP "A" #1-28
Unique Well ID DST #1, CHEROKEE, 4310-4410
Surface Location SEC 28-17S-24W, NESS CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #1, CHEROKEE, 4310-4410
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator TRANS PACIFIC OIL CORPORATION
Report Date 2012/07/04
Prepared By TIM VENTERS
Qualified By BETH ISERN

Start Test Date 2012/07/04
Final Test Date 2012/07/04

Start Test Time 02:38:00
Final Test Time 10:24:00

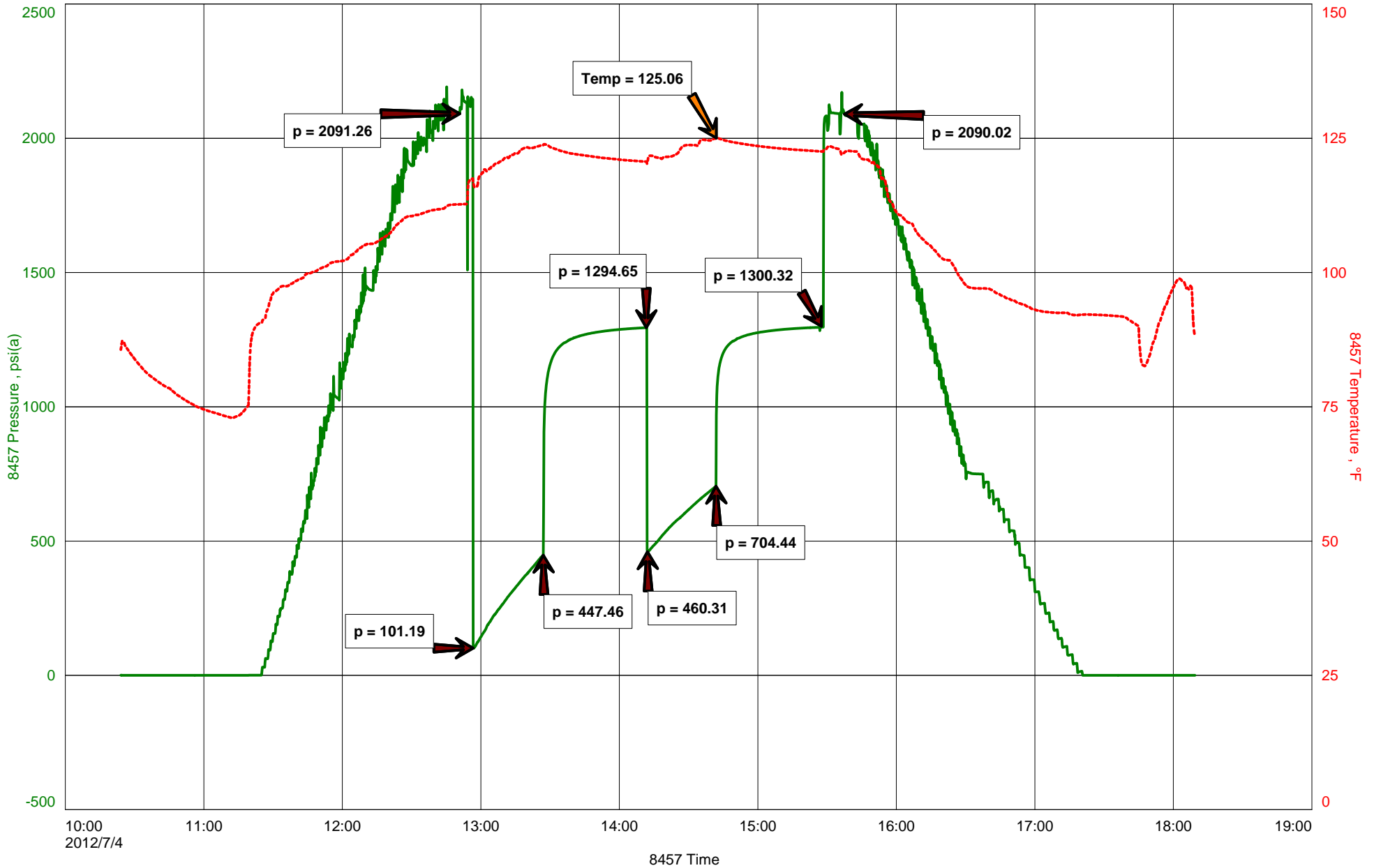
Test Recovery:

RECOVERED: 390' MUD
755' MCW, 66% WATER, 34% MUD
130' HWCM, 44% WATER, 56% MUD
250' SMCW, 90% WATER, 10% MUD
1525' TOTAL FLUID

TOOL SAMPLE: TRACE OIL, 98% WATER, 2% MUD

CHLORIDES: 15,000 ppm
PH: 7.0
RW: .35 @ 79 deg.

RUPP "A" #1-28





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

TIME ON: _____
TIME OFF: _____

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
Test Approved By _____ Diamond Representative _____

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
2nd Open: _____

Recovered _____ ft. of _____	Price Job Other Charges Insurance Total
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	

Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) _____ 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.

ALLIED OIL & GAS SERVICES, LLC 053636

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Coar Brady #5

DATE <u>6-28-12</u>	SEC. <u>28</u>	TWP. <u>17S</u>	RANGE <u>24W</u>	CALLED OUT	ON LOCATION	JOB START <u>8:00</u>	JOB FINISH <u>9:00</u>
LEASE <u>Rupp 'A'</u>		WELL# <u>1-28</u>		LOCATION <u>Ness City gks 4w 7N</u>		COUNTY <u>Ness</u>	STATE <u>Kansas</u>
OLD OR <u>NEW</u> (Circle one)				E. INTO			

CONTRACTOR Duke Drilling #2 OWNER _____

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. _____ CEMENT _____

CASING SIZE 8 5/8 DEPTH 264.34 AMOUNT ORDERED 170 sks class A 31.00

TUBING SIZE _____ DEPTH 21.901

DRILL PIPE 4 1/2 DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15 Bt.

PERFS. _____

DISPLACEMENT _____

EQUIPMENT _____

PUMP TRUCK CEMENTER Rupp C

366 HELPER Joe M

BULK TRUCK _____

482 DRIVER Vince P

BULK TRUCK _____

_____ DRIVER _____

REMARKS: _____

See Cement Log

Plug Down 8:30 pm

CHARGE TO: # Trans Pacific Oil Corp

STREET _____

CITY _____ STATE _____ ZIP _____

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 ADION Vasquez

SIGNATURE ADION Vasquez

Thank You!!!

COMMON	<u>170</u>	@	<u>16.25</u>	<u>2.762.50</u>
POZMIX		@		
GEL	<u>3</u>	@	<u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>6</u>	@	<u>58.30</u>	<u>349.80</u>
ASC		@		

HANDLING 183.75 @ 2.10 385.92

MILEAGE 8.37 x 12 x 2.35 236.38

TOTAL 3.797.05

SERVICE _____

DEPTH OF JOB 264

PUMP TRUCK CHARGE 1125.00

EXTRA FOOTAGE @ _____

MILEAGE HVM 12 @ 7.00 84.00

MANIFOLD hvm 12 @ 4.00 48.00

TOTAL 1257.00

PLUG & FLOAT EQUIPMENT _____

SALES TAX (If Any) _____

TOTAL CHARGES 5.054.05

DISCOUNT 25% 1263.51

IF PAID IN 30 DAYS

3.790.53

RECEIVED

JUL 1 2012

BY _____

ALLIED OIL & GAS SERVICES, LLC 053641

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
West Bend, KS

DATE <u>7-5-12</u>	SEC <u>26</u>	TWP. <u>17S</u>	RANGE <u>24W</u>	CALLED OUT	ON LOCATION	JOB START <u>6:30</u>	JOB FINISH <u>4:00</u>
LEASE <u>Ryppa</u>		WELL # <u>1-28</u>		LOCATION <u>Ness City, KS 4W 7N</u>		COUNTY <u>Ness</u>	STATE <u>Kansas</u>
OLD OR <u>NEW</u> (Circle one)				E. into			

CONTRACTOR Duke Drilling Rig #2

TYPE OF JOB Battery Plug

HOLE SIZE 12 1/4 T.D.

CASING SIZE 5 7/8 DEPTH

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH 1680

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. All

PERFS.

DISPLACEMENT Fresh water

EQUIPMENT

OWNER _____

CEMENT

AMOUNT ORDERED 2509x 60% Class A
110 x 90 2 4x 90 1 1/4 Flo Seal

COMMON	<u>150</u>	@ <u>16.25</u>	<u>2,437.50</u>
POZMIX	<u>100</u>	@ <u>8.50</u>	<u>850.00</u>
GEL	<u>9</u>	@ <u>21.25</u>	<u>191.25</u>
CHLORIDE		@	
ASC		@	
	<u>Flow Seal 62</u>	@ <u>2.70</u>	<u>167.40</u>
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>268.40</u>	@ <u>2.10</u>	<u>563.76</u>
MILEAGE	<u>11.21 x 12 x</u>	<u>2.35</u>	<u>316.12</u>
TOTAL			<u>4,526.03</u>

PUMP TRUCK CEMENTER Dustin C

398 HELPER Kerry B

BULK TRUCK

341 DRIVER Kevin W

BULK TRUCK

DRIVER

REMARKS:

- fill hole with Rig mud
- 1 1680 - 50 SX
- 2 680 - 80 SX
- 3 280 - 50 SX
- 4 60 - 20 SX
- RH 30 SX
- MH 25 SX
- plug down 7:20 AM

CHARGE TO: Trans Profer Oil Corp

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE		<u>1250.00</u>	
EXTRA FOOTAGE	@		
MILEAGE	<u>Hum 12</u>	@ <u>7.00</u>	<u>84.00</u>
MANIFOLD	@		
	<u>Hum 12</u>	@ <u>4.00</u>	<u>48.00</u>
		@	
TOTAL			<u>1382.00</u>

PLUG & FLOAT EQUIPMENT

_____ @ **RECEIVED**

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

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 X Dion Vasquez

SIGNATURE X Dion Vasquez

Thank You!!

BY _____
TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES 5,908.03

25% 1,477.00

DISCOUNT _____ IF PAID IN 30 DAYS

4,431.03

Well: Rupp A 1-28

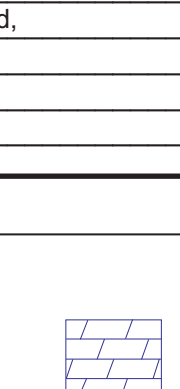
STR: 28-17S-24W

Cty: Ness

State: Kansas

Log Tops:

Anhydrite	1650' (+700)	-9'
Heebner	3718' (-1368)	-9'
Lansing	3762' (-1412)	-10'
BKC	4057' (-1707)	-8'
Marmaton	4100' (-1750)	-3'
Fort Scott	4266' (-1916)	-8'
Cherokee Shale	4292' (-1942)	-8'
Cherokee Sand	4372' (-2022)	-31'
Mississpi Dol.	4422' (-2072)	+9'
RTD	4500' (-2150)	



GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

Geologist on Well: Beth Isern

LEASE: RUPP "A" #1-28
 FIELD: WILDCAT
 LOCATION: 9900 FSL, 398' FWL
 SEC: 28 T1MSP T1S R1E 24W
 COUNTY: NESS STATE: Kansas
 CONTRACTOR: Duke Drilling Rig #2
 SPUD: 06/27/12 COMP: 7/5/12

ELEVATIONS
 KB: 2350
 DF: _____
 GL: 2342
 Measurements are All From Kelly Bushing

RD: 4500 LTD: 4499
 MUD UP: 3500 TYPE MUD: CHEMICAL
 SAMPLES SAVED FROM: 3700 TO: RTD
 DRILLING TIME KEPT FROM: 3400 TO: RTD
 SAMPLES EXAMINED FROM: 3700 TO: RTD
 GEOLOGICAL SUPERVISION FROM: 3950
 REFERENCE WELL: Minnie Rudenach/ Palominia Petroleum

CONDUCTOR: _____
 SURFACE: 8 5/8" @ 264'
 PRODUCTION: NONE
 ELECTRICAL SURVEYS: _____
 D.L., DUCP: _____

FORMATION

Sample Tops	E-log Tops	Struct
Anhydrite 1651 (+ 699)	1650 (+700)	-9
Base Anhydrite 1680 (+ 670)	1680 (+670)	-7
Heebner 3719 (-1369)	3718 (-1368)	-9
Lansing 3760 (-1410)	3762 (-1412)	-10
BKC 4060 (-1710)	4057 (-1707)	-8
Mamaton 4108 (-1758)	4100 (-1750)	-8
Fort Scott 4267 (-1917)	4266 (-1916)	-8
Cherokee Sand 4294 (-1944)	4292 (-1942)	-8
Cherokee Sand 4374 (-2024)	4372 (-2022)	-8
Mississippi 4420 (-2070)	4422 (-2072)	-9

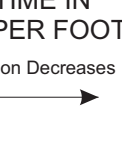
LOG-TECH

REMARKS

it was decided to plug and abandon the Rupp #1-28 based on the low structural position and the results of drill stem test #1 from the Cherokee Sand. There were no other oil shows in this hole.

Respectfully Submitted,
 Beth Isern

LEGEND



DEPTH	DRILLING TIME IN MINUTES PER FOOT	SAMPLE DESCRIPTION	REMARKS
1620	1.0		
1650		Anhydrite	
1660		1660 (+ 700)	
1680		Base Anhydrite	
1681		1681 (+ 669)	
3400		DAILY PENETRATION 6-28-12 Spud @ 3:30 PM 6-30-12 Drilling at 395' 6-30-12 Drilling at 2232' 7-1-12 Drilling at 3075' 7-2-12 Drilling at 3713' 7-3-12 Drilling at 4220' 7-4-12 Testing at 4410' 7-5-12 Logging @ 4500'	
3400		Crm, fxin to sl chalky ls w/ pr-fr ppt por. Gry, rust sh. NS	
3700		Crm, ooc, & foss ls w/ fr-gd ooc, & foss-cast por.	
3719		Heebner Sh.	
3719		3719 (-1369)	
3719		Blk, carb. shale	
3719		Crm fxin & v foss ls w/ gd vis. por., sli cherty. NS	
3719		Lt tan-gry, vfxln & ds ls, partly foss, no por. NS	
3760		Lansing	
3760		3760 (-1410)	
3760		Crm-wht, fxin ls, v pr por, rare foss, NS	
3760		Ls AA w/ few pcs lt gry ds ls & dk gry shale	
3760		Crm-tan fxin & partly foss ls w/ v pr por. NS	
3760		Bn, micro xln ls w/ few pc brn sh	
3760		Crm-dk tan ds ls tr cht & dk gry sh	
3760		Dk gy sh	
3760		Crm-lt gy, fxin - sli chalky foss ls, pr-fr foss-cast por. NS	
3760		Tan-crm ds ls, tr vgy por., tr cht NS	
3760		Dk gy-bk shale	
3760		Ls-crm, dense, trace poor int xln por., f-m xln, Sh-gry gm NS	
3760		Ls-crm-lt gry, dense, few pc have poor vug por. No stn.	
3760		Sh-gry, gm, brn	
3760		Ls-AA, chalky i.p., trace pyrite	
3760		Ls-crm-brn, dense, no stn. NS	
3760		Ls-crm, ool, poor scatt, inter. ool, por., plus some gry sh	
3760		Ls-crm, mostly foss., chalky i.p., fxin, no stn	
3760		Ls-crm, lt brn, foss i.p, sli chalky, fxin, no stn	
3760		Ls-crm to brn, sl ool w/ pr ooc por, NS	
3760		Ls-crm, fair scatt, por., fxin, md hd-hd, no stn. NS	
3760		Ls-tan-crm, foss ip, fxin, dense,	
3760		Sh-blk, gry, and dk gm	
3760		Ls-gry, gm, lt brn, foss, fxin, no vis por	
3760		Ls-f-mxin, crm, scattered vug por, barren, NS	
3760		Ls-fxin, crm, dense, and brn lst, dense foss ip,	
3760		Sh-gry-gm	
3760		Ls-fxin, crm-brn, dense, no stn	
3760		Soft gm shale	
3760		Crm to wh, sl chky ls, prty ool & ooc, pr ooc por, NS	
3760		Ls-crm-brn, dense, fxin, no vis por, foss ip	
3760		Ls-lt crm-wht, sli chalky, also brn lst dense fxin and foss	
3760		Blk pty & carb sh, abdt shales, tan-gy, foss & dsm mttled ls, NS	
3760		Sh-dk-lt gm, brn	
3760		Ls-ool, crm, hard, dense, foss i.p, few pc chert.	
3760		Sh-carb, blk-dk gm	
3760		Ls-crm, dense, foss, i.p., few pc wht cherty ls	
3760		Ls-crm, fxin, dense, some pc ool, foss ip, hard poor por.	
4060		Base Kansas City	
4060		4060 (-1710)	
4060		Rust, gm, & gy shales	
4060		Lt tan, fxin to prty foss ls, pr por, NS	
4060		Sh-gry-gm	
4060		Ls-crm-brn, fxin, sli chalky, foss, ip	
4060		Sh-blk, dk gm, gm, brn	
4060		Ls-lt brn, mxln-fxin, dense	
4108		Mamaton	
4108		4108 (-1758)	
4108		Many shales AA	
4108		Ls-brn, vfxln, wh lst-foss, hard	
4108		Shales-AA	
4108		Ls-crm-brn, foss ip, sli chalky, few pc microxin, blocky, NS	
4108		Sh-AA	
4108		Ls-crm-brn, mottled, foss, ooc, i.p	
4108		Ls-wht-crm, chalky ip, dense, vfxln, no foss, no vis por. no show	
4108		Sh-gry-gm, rust color, soft	
41830		PAWNEE	
41830		1830	
41830		Ls-crm, gry, lt brn, vf-fxin, dense no stn, NS	
41830		Ls-crm-gry, f-mxin, chalky ip, no stn	
41830		Ls-crm-gry, vfxln, foss ip, sucr ip no stn, NS	
41830		Tan, dk tan, biky ls, dense, no vis por, NS	
41830		Ls-AA	
41830		Sh-gm, waxy, blocky	
41830		Sh-dk gry-black, hard, blocky	
41830		Ls-lt brn, vfxln, no foss, no vis por	
41830		Sh-blk-gm, carb.	
4267		Fort Scott	
4267		4267 (-1817)	
4267		Tan, fxin and prty foss ls w/ v pr vis por, NSF0, no odor, tr stn;	
4267		ABDT GY, GRN RD SHALES	
4267		crm-tan ls, partly foss w/ pr vis por ds, tr cht, NSF0, no stn no odor,	
4267		Sh-blk, carb	
4267		Crm ls, fxin, ds w/ pr vis por	
4267		Sh-blk, gm, brn, lt gm, few pc wht opaque frsh cht,	
4267		Crm-tan ls, fxin, trace foss, pr vis por, rust, gm, gy shales, tr cht, NS	
4267		Crm-tan, fxin ls, pr vis por, pcs gy, rust, gm shale, wht, fresh cht	
4267		Ls & shales aa, mostly gry & gy-gm sh, sl sndy, NSF0 no stn, no odor	
4267		Abdt gy, turq gy, gy-gm mottled shales, w/ prple & yw shales, sl sndy. Few clstrs med grd sand, barren	
4267		Gy, turq, yw, prtl sndy shale; gy siltstone; 3-4 pcs cht, md grd ss, NSF0, no stn, no odor	
4267		Gy shales - v pr smpls	
4294		Cherokee Sand	
4294		4294 (-1944)	
4294		Wht gm, vgrnd ss, glauc, friable	
4294		Wht ss AA, few loose grns, nsfo, no odor; Wht fgrnd ss AA, 3 castes w, VSSFO, tan, well srted, no odor, tr stn;	
4294		Wht, fgrnds ss, well srted, glauc, sl calc cmt, sl fra, NSF0, no odor, loose qtz grns bottom tray	
4294		Wht ss AA, NSF0, no odor;	
4294		Wht, fsh cht, tr wthrd pcs, NSF0, no odor, no stn	
4294		Wht, mostly frsh & shp cht, foss w/ foss cast por; few sl wthrd to trip, NSF0, no odor, no stn	
4294		Wht, frsh cht, prty foss w/ calc or sil rept; yw & gry shp cht, few wthrd cht, NSF0, no odor, no stn	
4294		Mossy cht AA w/ pcs crm, vfxln dol, sl glauc, pr vis por, NSF0, no odor, no stn, pcs gy sh	
4294		Cont wht cht w/ crm, fxin dol, sl glauc, pr vis por, NSF0, no stn, no odor	
4294		Crm, lt tan, fxin dol, w/ pr-fr interxin por, tr vgy por, chty, NSF0, no stn, no odor	
4294		Lt tan, vfxln dol, incr in glauc, fr vgy por & foss cast por, chty, NS	
4294		Dol AA w/ incr in gry shales, NS	
4294		Dol AA, w/ incr in dk gy sh, sl silty, tan, ds dol, tr ls, incr in wht, shp chert	
4374		DST #1	
4374		4374 (-2024)	
4374		Wht gm, vgrnd ss, glauc, friable	
4374		Wht ss AA, few loose grns, nsfo, no odor; Wht fgrnd ss AA, 3 castes w, VSSFO, tan, well srted, no odor, tr stn;	
4374		Wht, fgrnds ss, well srted, glauc, sl calc cmt, sl fra, NSF0, no odor, loose qtz grns bottom tray	
4374		Wht ss AA, NSF0, no odor;	
4374		Wht, fsh cht, tr wthrd pcs, NSF0, no odor, no stn	
4374		Wht, mostly frsh & shp cht, foss w/ foss cast por; few sl wthrd to trip, NSF0, no odor, no stn	
4374		Wht, frsh cht, prty foss w/ calc or sil rept; yw & gry shp cht, few wthrd cht, NSF0, no odor, no stn	
4374		Mossy cht AA w/ pcs crm, vfxln dol, sl glauc, pr vis por, NSF0, no odor, no stn, pcs gy sh	
4374		Cont wht cht w/ crm, fxin dol, sl glauc, pr vis por, NSF0, no stn, no odor	
4374		Crm, lt tan, fxin dol, w/ pr-fr interxin por, tr vgy por, chty, NSF0, no stn, no odor	
4374		Lt tan, vfxln dol, incr in glauc, fr vgy por & foss cast por, chty, NS	
4374		Dol AA w/ incr in gry shales, NS	
4374		Dol AA, w/ incr in dk gy sh, sl silty, tan, ds dol, tr ls, incr in wht, shp chert	
4420		Mississippi	
4420		4420 (-2070)	
4420		Wht gm, vgrnd ss, glauc, friable	
4420		Wht ss AA, few loose grns, nsfo, no odor; Wht fgrnd ss AA, 3 castes w, VSSFO, tan, well srted, no odor, tr stn;	
4420		Wht, fgrnds ss, well srted, glauc, sl calc cmt, sl fra, NSF0, no odor, loose qtz grns bottom tray	
4420		Wht ss AA, NSF0, no odor;	
4420		Wht, fsh cht, tr wthrd pcs, NSF0, no odor, no stn	
4420		Wht, mostly frsh & shp cht, foss w/ foss cast por; few sl wthrd to trip, NSF0, no odor, no stn	
4420		Wht, frsh cht, prty foss w/ calc or sil rept; yw & gry shp cht, few wthrd cht, NSF0, no odor, no stn	
4420		Mossy cht AA w/ pcs crm, vfxln dol, sl glauc, pr vis por, NSF0, no odor, no stn, pcs gy sh	
4420		Cont wht cht w/ crm, fxin dol, sl glauc, pr vis por, NSF0, no stn, no odor	
4420		Crm, lt tan, fxin dol, w/ pr-fr interxin por, tr vgy por, chty, NSF0, no stn, no odor	
4420		Lt tan, vfxln dol, incr in glauc, fr vgy por & foss cast por, chty, NS	
4420		Dol AA w/ incr in gry shales, NS	
4420		Dol AA, w/ incr in dk gy sh, sl silty, tan, ds dol, tr ls, incr in wht, shp chert	
4500		RTD 4500 (-2150)	
4500		LTD 4499(-2149)	

MUD PROPERTIES @ 3819:
 Vis: 46
 WT: 9.2
 WL: 11.2
 CHLOR: 4,100 PPM

MUD PROPERTIES @ 4217:
 Vis: 49
 WT: 9.5
 WL: 11.2
 CHLOR: 4,700 PPM

MUD PROPERTIES @ 4212:
 Vis: 49
 WT: 9.5
 WL: 11.2
 CHLOR: 4,700 PPM

MUD PROPERTIES @ 4426:
 Vis: 62
 WT: 9.5
 WL: 11.2

VERY POOR SMPLS - CARRIED ABT SH

POOR SMPLS - ABDT SHALES

MUD PROPERTIES @ 4217:
 Vis: 49
 WT: 9.5
 WL: 11.2
 CHLOR: 4,700 PPM

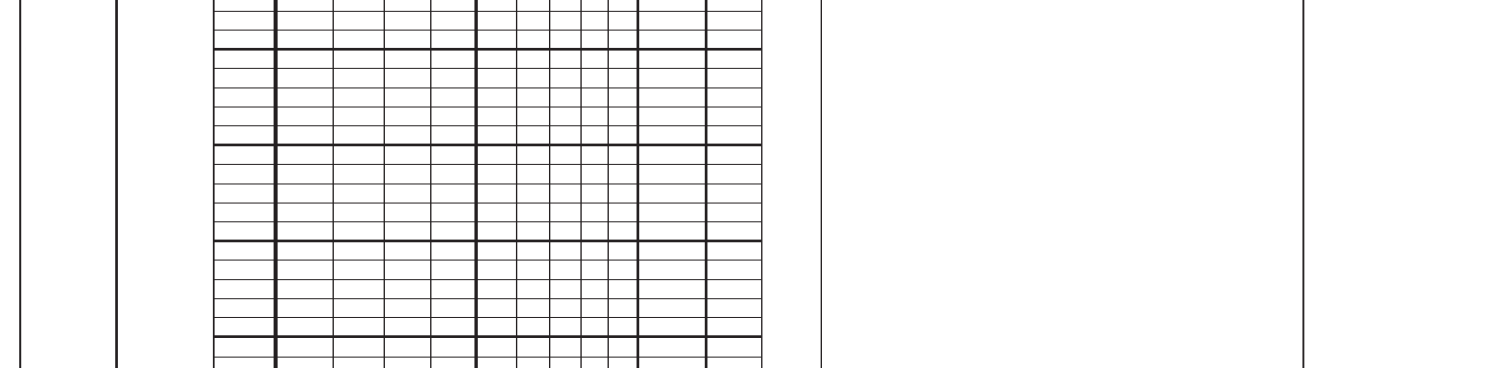
SMPLS CLEANED UP - BETTER SMPLS

DST #1 4310'-4410'
 30-45-30-45
 1ST OPEN: BOB 2'
 2ND OPEN: BOB 5'
 RE: 1525' TF
 390' MD
 755' MCW 66% W
 130' HWCM 44% W
 250' WM 90% W

IFP 101-447#
 FFP 460-704#
 ISIP 1295#
 FSIP 1300#
 HYD 2091-2090#

Mud Properties @ 4426:
 Vis: 62
 WT: 9.5
 WL: 11.2

DST # 1



DEPTH	DRILLING TIME IN MINUTES PER FOOT	SAMPLE DESCRIPTION	REMARKS
1620	1.0		
1650		Anhydrite	
1660		1660 (+ 700)	
1680		Base Anhydrite	
1681		1681 (+ 669)	
3400		DAILY PENETRATION 6-28-12 Spud @ 3:30 PM 6-30-12 Drilling at 395' 6-30-12 Drilling at 2232' 7-1-12 Drilling at 3075' 7-2-12 Drilling at 3713' 7-3-12 Drilling at 4220' 7-4-12 Testing at 4410' 7-5-12 Logging @ 4500'	
3400		Crm, fxin to sl chalky ls w/ pr-fr ppt por. Gry, rust sh. NS	
3700		Crm, ooc, & foss ls w/ fr-gd ooc, & foss-cast por.	
3719		Heebner Sh.	
3719		3719 (-1369)	
3719		Blk, carb. shale	
3719		Crm fxin & v foss ls w/ gd vis. por., sli cherty. NS	
3719		Lt tan-gry, vfxln & ds ls, partly foss, no por. NS	
3760		Lansing	
3760		3760 (-1410)	
3760		Crm-wht, fxin ls, v pr por, rare foss, NS	
3760		Ls AA w/ few pcs lt gry ds ls & dk gry shale	
3760		Crm-tan fxin & partly foss ls w/ v pr por. NS	
3760		Bn, micro xln ls w/ few pc brn sh	
3760		Crm-dk tan ds ls tr cht & dk gry sh	
3760		Dk gy sh	
3760		Crm-lt gy, fxin - sli chalky foss ls, pr-fr foss-cast por. NS	
3760		Tan-crm ds ls, tr vgy por., tr cht NS	
3760		Dk gy-bk shale	
3760		Ls-crm, dense, trace poor int xln por., f-m xln, Sh-gry gm NS	
3760		Ls-crm-lt gry, dense, few pc have poor vug por. No stn.	
3760		Sh-gry, gm, brn	
3760		Ls-AA, chalky i.p., trace pyrite	
3760		Ls-crm-brn, dense, no stn. NS	
3760		Ls-crm, ool, poor scatt, inter. ool, por., plus some gry sh	
3760		Ls-crm, mostly foss., chalky i.p., fxin, no stn	
3760		Ls-crm, lt brn, foss i.p, sli chalky, fxin, no stn	
3760		Ls-crm to brn, sl ool w/ pr ooc por, NS	
3760		Ls-crm, fair scatt, por., fxin, md hd-hd, no stn. NS	
3760		Ls-tan-crm, foss ip, fxin, dense,	
3760		Sh-blk, gry, and dk gm	
3760		Ls-gry, gm, lt brn, foss, fxin, no vis por	
3760		Ls-f-mxin, crm, scattered vug por, barren, NS	
3760		Ls-fxin, crm, dense, and brn lst, dense foss ip,	
3760		Sh-gry-gm	
3760		Ls-fxin, crm-brn, dense, no stn	
3760		Soft gm shale	
3760		Crm to wh, sl chky ls, prty ool & ooc, pr ooc por, NS	
3760		Ls-crm-brn, dense, fxin, no vis por, foss ip	
3760			