ORIGINAL

KANSAS CORPORATION COMMISSION 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 # 4184 | API No. 15 - 009-25475-00-00 |
|---|--|
| Name: CASINO PETROLEUM LLC | Spot Description: 100' N |
| Address 1: PO BOX 415 | N SW NW SE Sec. 14 Twp. 20 S. R. 11 East West |
| Address 2: | |
| City: ELLINWOOD State: KS Zip: 67526 + | 2,310 Feet from 🗸 East / 🗌 West Line of Section |
| Contact Person: CHRIS BATCHMAN | Footages Calculated from Nearest Outside Section Corner: |
| Phone: (620) 566-7111 RECEIVED | □NE □NW ☑SE □SW |
| CONTRACTOR: License #_33350 | County: BARTON |
| Name: SOUTHWIND DRILLING INC DEC 2 0 2010 | Lease Name: ZAHORSKY Well #: 12 |
| Walleite Galaciet: TODD E. MORGENSTERN | Field Name: CHASE SILICA |
| Purchaser: NCRA KCC WICHITA | Producing Formation: ARBUCKLE |
| Designate Type of Completion: | Elevation: Ground: 1750 Kelly Bushing: 1757 |
| ✓ New Well Re-Entry Workover | Total Depth: 3270 Plug Back Total Depth: |
| ✓ oil | Amount of Surface Pipe Set and Cemented at: 275 Feet |
| Gas D&A ENHR SIGW | Multiple Stage Cementing Collar Used? Yes V No |
| ☐ OG ☐ GSW ☐ Temp. Abd. | If yes, show depth set:Feet |
| CM (Coal Bed Methane) | If Alternate II completion, cement circulated from: |
| Cathodic Other (Core, Expl., etc.): | feet depth to: w/ sx cmt. |
| If Workover/Re-entry: Old Well Info as follows: | |
| Operator: | |
| Well Name: | Drilling Fluid Management Plan (Data must be collected from the Reserve Pit) |
| Original Comp. Date: Original Total Depth: | Chloride content: 46000 ppm Fluid volume: 320 bbls |
| ☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD | Dewatering method used: NONE |
| Conv. to GSW | Dewatering method used: |
| Plug Back: Plug Back Total Depth | Location of fluid disposal if hauled offsite: |
| Commingled Permit #: | Operator Name: CASINO PETROLEUM LLC |
| Dual Completion Permit #: | Lease Name: SESSLER License #: 4184 |
| SWD Permit #: | Quarter SE Sec. 24 Twp. 20 S. R. 11 East West |
| ENHR Permit #: | County: BARTON Permit #: D-24,167 |
| GSW Permit #: | Coding. |
| 09/17/2010 09/21/2010 9/21/10 Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date | |
| Kansas 67202, within 120 days of the spud date, recompletion, workover or confidential for a period of 12 months if rec | the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information quested in writing and submitted with the form (see rule 82-3-107 for confiden-bil report shall be attached with this form. ALL CEMENTING TICKETS MUST rm with all temporarily abandoned wells. |
| AFFIDAVIT | KCC Office Use ONLY |
| I am the affiant and I hereby certify that all requirements of the statutes, rules and | regu- |
| lations promulgated to regulate the oil and gas industry have been fully complied | d with |
| and the statements herein are complete and correct to the best of my knowledge | Confidential Release Date: |
| | Wireline Log Received |

Geologist Report Received

ALT KI II III Approved by:

UIC Distribution

Side Two

| Operator Name: CAS | <u>SINO PETROLEL</u> | JM LLC | Lease I | اـــ : Vame | ZAHURSKY | | . Well #: <u>12</u> | | |
|---|--|---|-----------------|---|--------------------|----------------------|---------------------|-----------------|-------------------------|
| Sec. 14 Twp.20 | s. R. <u>11</u> | ☐ East ✓ West | County | BAR | TON | | | | |
| time tool open and clo | sed, flowing and shutes if gas to surface te | d base of formations pe t-in pressures, whether st, along with final chart well site report. | shut-in pres | sure read | ched static level, | hydrostatic press | ures, bottom l | nole tempe | erature, fluid |
| Drill Stem Tests Taken (Attach Additional S | | ✓ Yes No | | □ Le | og Formation | n (Top), Depth an | d Datum | √ s | Sample |
| Samples Sent to Geol | , | ☐ Yes ☑ No | | Nam | | | Тор | | Datum |
| Cores Taken | ogicai Survey | ∐ Yes ☑ No □ Yes ☑ No | | | HEEBNER SHALE | | 2869' | -1112' -1128 | |
| Electric Log Run | | Yes No | | TORO | | | 2885' | | |
| Electric Log Submitted | • | Yes No | | DOUG | | | 2900' 2991' | | 143 |
| (If no, Submit Copy |) | | | LANS | /N LIME | | 3017' | -1234 -1260 | |
| List All E. Logs Run: | | | | ARBU | | | 3267' | | 510 |
| | | | | | RY TOTAL DE | PTH | 3270' | | 513 |
| | | CASINO | 3 RECORD | □ Ne | | | | | |
| | | Report all strings set | -conductor, su | | _ | on, etc. | · | | |
| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weig Lbs. | | Setting Depth | Type of Cement | # Sacks Used | | and Percent dditives |
| SURFACE | 12 1/4" | 8 5/8" | 23# | | 275 | соммон | 325 | 60/40 F | oz |
| LONGSTRING | 7 7/8" | 5 1/2" | 14# | · · · · · · · · · · · · · · · · · · · | 3264 | COMMON | 125 | ASC | |
| | | ADDITIONA | J CEMENTI | VIC / SOI | JEEZE RECORD | | | | |
| Purpose: | Depth | Type of Cement | # Sacks | | DEEZE RECORD | Type and F | Percent Additives | | |
| Perforate Protect Casing | Top Bottom | | | | | | | | |
| Plug Back TD | 1 | | | | | | | | |
| Plug Off Zone | | | | , <u>, , , , , , , , , , , , , , , , , , </u> | | | | | |
| | DEDEODATIO | ON RECORD - Bridge Plu | ine Set/Tyne | | Acid Frag | cture, Shot, Cement | Squeeze Reco | rd | |
| Shots Per Foot | | Footage of Each Interval Pe | | · | | nount and Kind of Ma | | | Depth |
| | OPEN HOLE | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | RE | CEIVE | ED |
| | | | | | | | DE | C 2 0 | 2010 |
| | | | | | | | V00 | MO | |
| TUBING RECORD: | Size: : 7/8" | Set At: 3260 | Packer A | t: | Liner Run: | Yes 🗸 No | NOU | WICI | ПІА |
| Date of First, Resumed 10/105/2010 | Production, SWD or EN | HR. Producing Me | ethod: | 9 🗌 | Gas Lift C | other (Explain) | | | |
| Estimated Production Per 24 Hours | Oil 1 | Bbls. Gas | Mcf | Wat | er Bi | ols. (| Gas-Oil Ratio | 4 | Gravity 41 |
| | | | | | | | | | |
| - | ON OF GAS: | ✓ Open Hole | METHOD OF Perf. | F COMPLETION: PRODUCTION INTERVAL: Dually Comp. Commingled | | | | | |
| Vented Sold | Longot | | Pell. | (Submit | | nit ACO-4) | | | |
| i (ii veineu, suc | | Other (Specify) | | | | | | | |

QUALITY OILWELL CEMENTING, INC.

| Lease Zahorsky Well No. #12 Location Great Beak, Ko 5 Sto 5 Mile 1814 Toy "ES Contractor Southwind #4 Owner Str. 18 E to 1808 Rev. 1N, 4 W Ms Type Job Surface T.D. 215' To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. Csg. 878" Depth 275' Charge Casho Petwleum Tbg. Size Depth Street | | e 785-483-2025 85-324-1041 | Н | ome Office | P.O. B | ox 32 I | Russell, K | S 67665 | | No. | 4242 |
|---|--------------|--|-----------------------|------------|-----------|--------------|----------------|--------------|-------------------------|--------------|--------------------|
| Location Countractor Contractor Southward Type Job Surface Type | Date | <i>ι</i> Δ | | | 10 | | Κ | State 5 | On Locati | on | |
| Contractor Southward #44 Type Job Surface The Job Surface The Job Surface The Job Surface The Job Surface To Quality Officer Commenting, no. You are hereby requested to rent remembring equipment and furnish commenter and neigher to assist owner or contractor to do work as listed. Comment Left in Csg. 5 Shoe Joint Street Tool Depth Street The above was done to satisfaction are supervision of owner agent or contractor. Meas Line Displace 6 SBLS Shoe Joint SBLS Street Equipment Shoe South Street Street Street Common Abo Street Stre | Lease | Zahorsky | Well No. | 2114 | ı | | A Bend 1 | 45 5 | 5to 5 m | VIE | BLKToph |
| Type Job Suctacle Hole Size 124, 17.0 27) S | | itor Southwind | #4 | | | Owner | Et , 151 | £ 4 150 | Ave, IN, | といい |) //5 |
| Camenter and helper to assist owner or contractor to do work as listed. CSS 88" Depth 275' Charge Cosino Retuckum TDG Street TDG Street Common Left in Csg. S5' Shoe Joint / S The above was done to satisfaction and supervision of owner agent or contractor. Meas Line Displace 16 886 S Cement Amount Ordered 325 \$ Common 3/8CC 2/8/Ce Pumptrk 5 No Cementer Aut Common 80 Bushirk / DN No Dover Development Common 80 Bushirk / DN Dover Development Common 80 Bushirk / DN No Dover Development Common 80 Bush | | -· N | | | | To Qualit | ty Oilwell Cer | menting, Inc | comenting only | inmont | and furnish |
| Csg. 8 % Depth 27 \$ ' Charge Casing Fetioleum The Size Depth Street Tool Depth City State Tool Depth Coment Left in Csg. 1 \$ Shoe Joint 15 The above was done to satisfaction and supervision of owner agent or contractor. Mees Line Displace 16 \$ 386 \$ Cement Amount Ordered 3.25 \$ Common 3% CC 2% Common 5 % CC 2% Common 6 % Common | | 12 4 11 | T.D. | 275' | | cemente | r and helper | to assist ow | ner or contracto | r to do | work as listed. |
| Tog. Size Depth Commit Left in Csg. S Shoe Joint 75 | | | Depth | 2751 | | Charge To | Casian | Petro | leun | | |
| Tool Cament Left in Csg. S S Shoe Joint S The above was done to satisfaction and supervision of owner agent or contractor. Meas Line Displace 16 5 3865 Cement Amount Ordered 32.5 Sx Common 3%CC 2%Cx EQUIPMENT JULY Provided Common S Sc C 2 Common S Sc C | | | Depth | | | | | | , | | |
| Meas Line Displace 6 | Tool | | Depth | | · | City | | | State | | |
| EQUIPMENT Pumptrk S No. Commenter Facult Freigher Bulkitk /O No. Dinter Freigher JOB SERVICES & REMARKS Calcium Hulls Rat Holo Salt Flowseal Kol-Seal Mouse Hole Centralizers Baskets Mud CLR 48 CFL-117 or CD110 CAF 58 Sand Handling Mileage Flowseal Flowseal Sand Handling Mileage Flowseal | Cement | t Left in Csg. 15' | Shoe J | oint /5 | <u> </u> | | | | | owner | agent or contracto |
| Pumptrk S No. Generater Actual Common SO | Meas Li | ine | Displac | e 1651 | 3BLS | Cement | Amount Orde | ered 323 | Ssx Comm | 00 | 3%CL 2%(|
| Pumptik No Driver Dough Poz. Mix Bulktik PO No Driver Dough Poz. Mix Direct Pour Pour Poz. Mix Direct Pour Poz. Mix Direct Poz. Mix Direct Pour Poz. Mix Bemarks: Cencer Po | | EQUI | PMENT | | | 141 | Flo - Seal | per seck | - | | |
| Bulkir PO Driver Bulkir Poz. Mix Job Services & Remarks Remarks: | Pumptrl | k S Helper | aul | | | Commor | 180 | 3 | | | |
| Centralizers Baskets Mud CLR 48 CFL-117 or CD110 CAF 38 Sand Handling Mileage FLOAT EQUIPMENT Guide Shoe Centralizer Baskets AFUINSERS Float Shoe 15e0 180 SK Common 3 GCC Latch Down Pumptrk Charge Surface Mileage 22 Tax Discount | Bułktrk | No. Driver Do | 10Y | | | Poz. Mix | , – (| | | | |
| Centralizers Baskets Mud CLR 48 CFL-117 or CD110 CAF 38 Sand Handling Mileage FLOAT EQUIPMENT Guide Shoe Centralizer Baskets AFUINSERS Float Shoe 15e0 180 SK Common 3 GCC Latch Down Pumptrk Charge Surface Mileage 22 Tax Discount | Bullettky | | \mathcal{L}° | | | Gel. | 3 | ······ | · | : | Pa |
| Centralizers Baskets Mud CLR 48 CFL-117 or CD110 CAF 38 Sand Handling Mileage FLOAT EQUIPMENT Guide Shoe Centralizer Baskets AFUINSERS Float Shoe 15e0 180 SK Common 3 GCC Latch Down Pumptrk Charge Surface Mileage 22 Tax Discount | | JOB SERVICE | ES & REMA | RKS | | Calcium | 6 | | s | De | CE// |
| Centralizers Baskets Mud CLR 48 CFL-117 or CD110 CAF 38 Sand Handling Mileage FLOAT EQUIPMENT Guide Shoe Centralizer Baskets AFUINSERS Float Shoe 15e0 180 SK Common 3 GCC Latch Down Pumptrk Charge Surface Mileage 22 Tax Discount | Remark | is: Cement | did | Circulo | te. | Hulls | | | Ko | | 2, 8 |
| Centralizers Baskets Mud CLR 48 CFL-117 or CD110 CAF 38 Sand Handling Mileage FLOAT EQUIPMENT Guide Shoe Centralizer Baskets AFUINSERS Float Shoe 15e0 180 SK Common 3 GCC Latch Down Pumptrk Charge Surface Mileage 22 Tax Discount | Rat Hol | 1 | | | | Salt | | | | C_{h} | 2010 |
| Baskets Mud CLR 48 CFL-117 or CD110 CAF 38 Sand Handling Mileage FLOAT EQUIPMENT Guide Shoe Centralizer Baskets AFU inserts Float Shoe Latch Down Pumptrk Charge Mileage 22 Tax Discount | Mouse I | Hole | | | | Flowsea | 180 | i | | " | CX |
| CFL-117 or CD110 CAF 38 Sand Handling Mileage FLOAT EQUIPMENT Guide Shoe Centralizer Baskets AFU inserts Float Shoe Latch Down Pumptrk Charge Sur Face Mileage 22 Tax Discount | Centrali | izers | | | | Kol-Seal | <u> </u> | • | | | "A |
| Sand Handling Mileage FLOAT EQUIPMENT Guide Shoe Centralizer Baskets AFU inserts Float Shoe Latch Down Pumptrk Charge Surface Mileage 22 Tax Discount | Baskets | · | | | | Mud CLI | R 48 | | · | | |
| Handling Mileage FLOAT EQUIPMENT Guide Shoe Centralizer Baskets AFU inserts Float Shoe Jed NO SK Common 3%CC Latch Down Pumptrk Charge Sur Face Mileage 22 Tax Discount | D/V or F | Port Collar | | · | | CFL-117 | or CD110 C | AF 38 | | | |
| Mileage FLOAT EQUIPMENT Guide Shoe Centralizer Baskets AFU inserts Float Shoe JSed SKO SK Common 3 6/L Latch Down Pumptrk Charge Surface Mileage 22 Tex Discount | | | 2850 mg | | | Sand | | 825 | | | |
| Mileage FLOAT EQUIPMENT Guide Shoe Centralizer Baskets AFU inserts Float Shoe JSed SKO SK Common 3 6/L Latch Down Pumptrk Charge Surface Mileage 22 Tex Discount | | %4 65 | | | 1 | Handling | | | Tengan de | | |
| Guide Shoe Centralizer Baskets AFU Insens Float Shoe Latch Down Pumpirk Charge Sur Face Mileage 22 Tax Discount | | THE RESERVE OF THE PARTY OF THE | | | jiho d | Mileage | | | AND PARTY OF THE PERSON | | |
| Centralizer Baskets AFU Inserts Float Shoe JSe J SO SX Common 3 CC Latch Down Pumptrk Charge Sur Face Mileage 22 Tax Discount | | | | | 400000 | | FLO | AT EQUIPA | IENT | granda; | Ala |
| Baskets AFU Inserts Float Shoe JSC JSO SX Common 3 GLL Latch Down Pumptrk Charge Sur Face Mileage 22 Tax Discount | | - All Control of the | | i dan | | Guide S | hoe | | *** \$2.300 | | |
| Sed 180 sx Common 3% Latch Down Pumptrk Charge Surface Mileage 22 Tex Discount | | | | | ji-ji- | Centraliz | zer | | | | |
| AFUINSertS Float Shoe JSe J 180 SK Common 3 LL Latch Down Pumptrk Charge Sur Face Mileage 22 Tax Discount | | | 7. 1 | - 0-0 | | Baskets | | 200 | | ait ; | j. |
| Sed 180 sx Common 3.6C Latch Down 2% Ged 44 Flo-sed Rumptrk Charge Sur Face Mileage 22 Tex Discount | | user 8; | 8 3 | wedge | <u> </u> | AFU Ins | erts 💮 | <u> </u> | - 25 40 304 12 | 200 | |
| 2% Gel 41 Flo-Sed Rumptrk Charge Sur Face Mileage 22 Tex Discount | | | | | Ng jay | | | | | ું ફેર્ફર; ે | |
| Pumptrk Charge Sur Face Mileage 22 Tax Discount | ···· | <u> </u> | ≤ <u>X</u> ((| mon | 3%16 | Latch Do | own | | 200 | 368 V | v |
| Rumptrk Charge Sur Face Mileage 22 Tax Discount | | 2%6 | el Ki | 1 Ho-se | <u>al</u> | | <u>a 4</u> | | | | |
| Rumptrk Charge Sur Face Mileage 22 Tax Discount | | ##** | | | | | | | | | |
| Mileage 2) Tax Discount | | | | | | Pumptrk | Charge 52 | ur face | | | |
| Discount Discount | | | | | | Mileage | 22 | | Etcario" | | |
| | | | | | | _ | | | | Tax | |
| Signature Kull Charge | | 0 8 | 10 | | |] | | | Dis | count | |
| | X Signatu | ire Kut J. | la Je | <u> </u> | | | | | Total C | harge | |

0 10:36a Vicki Batchman 620-564-2331 p.1 QUALITY OII WELL CEMENTING, INC.

| Phone 785-483-2025 Cell 785-324-1041 | Home Office | e P.O. Bo | ox 32 Russe | ii, KS 67665 | No. | 4550 |
|---|-----------------|-------------------|----------------|---|-----------------------------|---------------------------------------|
| Date 9-21-10 Sec. 14 | Twp. Range | e | County | State | On Location | Finish 3.30PM |
| Lease Zahorsky W | /ell No. 12 | Location | on Ellinwoo | ns occ so | w /2 W 25 | 4/aE |
| Contractor Southwind | > 书4 | | Owner | | · | Ninto |
| Type Job P. De job | | ; | You are hereby | ell Cementing, Inc requested to rent | cementing equipment | and furnish |
| Hole Size 778 | т.б. 3271_ | | cementer and h | elper to assist ow | ner or contractor to do | work as listed. |
| Csg 5/2 (1416) | Depth 3269 | | Charge Ca | Sino_ | | |
| Tbg. Size | Depth | • | Street | | | |
| Tool | Depth | | City | | State | · |
| Cement Left in Csg. 21.55 | Shoe Joint 21.5 | | | | and supervision of owner a | agent or contractor. |
| Meas Line | Displace /9 | ·93pl | Sement Amoun | t Ordered | com 10% Salt | 20 3,150 m |
| No Cementer | MENT | | 300 3 | al mud C | 1ear 48 | |
| Pumptrk D Helper | randon | | Common/2.5 | · · · · · · | | · · · · · · · · · · · · · · · · · · · |
| Bulktrk 10 No. Driver Driver No. Oriver | 20 | | Poz. Mix | | ASO. | |
| Bulktrk Driver | 222 | <u> </u> | Gel. | | DEC CENTER | |
| JOB SERVICES | & HEMAKKS | · · · | Calcium | | KO 3 20 | • |
| Remarks: | | | Hulls (2 | <u></u> | CC WID VID | |
| Rat Hole | | : | Salt / | | 10/1/74 | |
| Mouse Hole | | | Flowseal | r 1 | '4 | |
| Centralizers | | | Kol-Seal | 500 | | <u> </u> |
| Baskets | | | Mud CLR 48 | 300 | | |
| D/V or Port Collar | 00 20 | CC | CFL-117 or CD | 1110 CAP 38 | | |
| Det parler shoe | off 21+ E | 10 | Sand | a | 3 05 | |
| D @ 1000 ps. | <u> </u> | Dring | Handling / S | 6 | | |
| Hook up pump or | Mariash i | 9 <u>no</u> | Mileage | FLOAT EQUIP | N 68 | at. |
| | Sicrop Wix | | Guide Shoe | TECH LOCAL | \$225.000 \$40000 W. \$2500 | ٠. |
| | BUS 970/20 | e W | Centralizer | 7 | | |
| 1925 bbis of 1 | Nate 30 | | Baskets | 7 | | |
| 7442 KM3 G | 1700ps100 |) 20 35 | AFU Inserts | 多 | | |
| 41 60 | 1-1 | | Float Shoe | | | |
| 1 470 - Coa | | jih sedi | Latch Down | 7 | | |
| | | :::tilli: . | 1 - 5 | 12 Dacke | rshoe | |
| | | | | Y | | |
| | | | Pumptrk Charg | | String. | |
| | <u> </u> | | Mileage 2 | 2 | | |
| | | | 1 | | Tax | |
| | <u> </u> | | | | Discount | |
| Xinaatura (1) | W/5 | | 1 | | Total Charge | |
| Signature// | | | _ | | | |

GEOLOGICAL REPORT

CASINO PETROLEUM

No. 12 Zahorsky 1750' FSL & 2310' FEL Section 14-20S-11W Barton County, Kansas

Todd E. Morgenstern

Petroleum Geologist Sunflower Bank Building P.O. Box 251 Ellinwood, Kansas 67526

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OPERATOR:

Casino Petroleum

WELL:

No. 12 Zahorsky

API # 15-009-25,475-00-00

LOCATION:

1750' from the South Line 2310' from the East Line Section 14-20S-11W Barton County, Kansas

FIELD:

Chase-Silica

CONTRACTOR:

Southwind Drilling Inc. Rig No. 4

DRILLING COMMENCED:

09-16-2010

DRILLING COMPLETED:

09-21-2010

DRILLING TIME:

One (1) foot drilling time was recorded

from 2800' to 3281' RTD.

SAMPLES:

Samples were saved and examined from 2800'

to 3270' RTD.

ELEVATIONS:

1750' Ground Level

1757' Kelly Bushing

MEASUREMENTS:

All depths are measured from 1757' K.B.

CASING RECORD:

8 5/8" Surface Casing set @ 275' with 325 sxs. 60/40 poz 5 ½" Production Casing set @ 3269' with 125 sxs. ASC

FORMATION TESTING:

One (1) tests was run by Trilobite Testing Inc.

MUD:

Mud-Co Inc. (Chemical Mud)

OPEN HOLE LOGS:

No Open Hole Logs Were Run

PRODUCTION:

Production Casing Set for Arbuckle Open Hole Completion

RECEIVER

DEC 2 (, 2010

KCC WICHITA

FORMATION TOPS:

| FORMATION | SAMPLE | DATUM |
|--------------------|--------|--------|
| HEEBNER SHALE | 2869' | -1112' |
| TORONTO | 2885' | -1128' |
| DOUGLAS | 2900' | -1143' |
| BROWN LIME | 2991' | -1234' |
| LANSING | 3017' | -1260' |
| ARBUCKLE | 3267' | -1510' |
| ROTARY TOTAL DEPTH | 3270′ | -1513' |
| | | |

SAMPLE DESCRIPTIONS AND TEST DATA:

ARBUCKLE

3267-3270

Dolomite, tan to light brown, fine to medium crystalline, with fair to good visible Intercrystalline and pinpoint vugular porosity, strong odor, fair show of free oil. Fair to good staining and saturation. (Covered by DST No.1)

FORMATION TEST NO. 1

ARBUCKLE

Tested from 3242'-3271'

| | | I.H.P. | 1563# |
|--------------------------|---------|-----------------|-------------|
| Strong blow BOB in 1 min | 15 min. | I.F.P. | 158# -364# |
| No blow-back | 45 min. | <u>I.S.I.P.</u> | <u>459#</u> |
| Strong blow BOB in 2 min | 15 min. | F.F.P. | 377# -448# |
| No blow-back | 45 min. | F.S.I.P. | <u>469#</u> |
| | | F.H.P. | 1530# |

(SEE PRESSURE CHARTS AT END OF REPORT)

RECOVERY: 115' Slightly Oil Cut Watery Mud (5% Oil, 42% Wtr. 53% Mud)

125' Slightly Oil &Heavy Mud Cut Water (5% Oil, 61% Wtr. 34% Mud) 125' Slightly Oil Cut & Mud Cut Water (5% Oil, 75% Wtr. 20% Mud) 190' Slightly Oil & Mud Cut Water (5% Oil, 85% Wtr. 10% Mud)

425' Slightly Mud Cut Water (0% Oil, 95% Wtr. 5% Mud)

980' Total Fluid Recovery

TEMPERATURE: 103*

CHLORIDES: 17,500 ppm (Recovery) 3,600 ppm (System)

RECEIVED
DEC 2 0 2010
KCC WICHITA

STRUCTURAL COMPARISION:

| | Casino | MUSTANG |
|---------------|-----------------------|-----------------|
| | No. 12 Zahorsky | No. 9 Zahorsky |
| | 1750' FSL & 2310' FEL | C-SE/4 |
| | Sec. 14-20S-11W | Sec. 14-20S-11W |
| | OIL | D&A |
| HEEBNER SHALE | -1112' | -1112' |
| TORONTO | -1128' | <u>-1127</u> ′ |
| BRN. LIME | -1234' | <u>-1234'</u> |
| LANSING | -1260' | <u>-1260'</u> |
| ARBUCKLE | -1510' | -1512' |

SUMMARY:

The No. 12 Zahorsky was under geological supervision from 2800' to 3270' RTD. With the positive structural position, oil shows and the similar results of DST No.1 in comparison to other producers on the Zahorsky Lease it was decided to run 5 $\frac{1}{2}$ " production casing and complete this well in the open hole.

Respectfully submitted,

Todd E. Morgenstern

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