

Standard Bit Record

Phone 940-627-6260

Document Number

Tool Pushers _____

Company **SHAWN WILHOIT**
Representatives _____

Smith Representative **ROBERT WARD**

JA000042

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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|-------------------|--------------------------------|-----------|-----------------------------------|--------------|----------------|--------------------------------------|--------------|----------------------|--|--------------|---------------|-----------|-------------|------------------|---------------|-------------|-------------|-------------------|---|---|---|---------|---|---|---------|---|---|-------------|----------|
| OPERATOR BURNETT OIL | | CONTRACTOR GREY WOLF | | RIG NO. 714 | BLOCK | SUB-BLOCK | LEASE/WELL NAME MERCANTILE | | WELL # 1-H | WELL DEPTH (ft) / EST DEPTH (ft) 10000 10000 | | | | | | | | | | | | | | | | | | | | |
| COUNTRY UNITED STATES | | STATE/PROVINCE TEXAS | | COUNTY/DISTRICT TARRANT | | QQSEC | QSEC/LSO | SECTION | TOWNSHIP | RANGE | FIELD | | | | | | | | | | | | | | | | | | | |
| BIT NO. | BIT SIZE (Inches) | BIT MFR | BIT TYPE | SERIAL NUMBER | JETS (32nds) | DEPTH OUT (ft) | DRILLED (ft) | HOURS | ROP (ft/hr) | MOTOR RPM LO | TOTAL RPM LO | WOB (klbs) LO | D R I V E | DEV IN | MUD / HYDRAULICS | | | | CUTTING STRUCTURE | | | | BEARING | | | REMARKS | | | FORMATIONS/ | |
| RUN CD | | Reamer MFR | ER Number | IADC CODE | TFA (in2) | TVD OUT (ft) | | CUM HRS | On Bot (ft/hr) | HI | HI | HI | | OUT | TYPE | Flo-Mud (gpm) | Press (psi) | PV (mPas) | HSI | I | O | D | L | 1 | 2 | 3 | G | O | R | RUN DATE |
| | | | | | | 9500 | 1132 | 42.0 | 27.0 | 120 | 190 | 12.0 | | | WATER | 361.00 | 1550 | 29.0 | 0.1 | | | | | | | | | | | |
| | | | | | | | | 380.3 | | | | | | 90.0 | 9.50 | | 70 | 27 | 110 | | | | | | | | | | | |
| Comments: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

29-Jul-2005

EXPLANATION OF THE IADC DULL BIT GRADING SYSTEM

| | | | | | | | | | | | | |
|--|--|---|---|--|-------------------|----------------|---------------|--------------|------------------|----------|----------------|-------------------|
| TOOTH CONDITION I = All inner rows, not cutting gage. O = Gage row, all teeth cutting gage of hole. Measure of total cutting structure reduction due to loss, breakage and wear. 0 = No loss, wear or breakage. 8 = All lost, worn or broken. | DULL CHARACTERISTICS D = MAJOR DULL CHAR. O = OTHER DULL CHAR. BC = Broken cone BF = Bond failure BU = Balled Up CC = Cracked cone CD = Cone dragged CI = Cone interference CR = Cored CT = Chipped teeth ER = Erosion FC = Flat crested wear HC = Heat checking JD = Junk damage LC = Lost cone LN = Lost Nozzle LT = Lost teeth/cutters OC = Off center wear PB = Pinched bit PN = Plugged nozzle RG = Rounded gage RO = Ring out SD = Shirtail damage SS = Self-sharpening wear TR = Tracking WO = Washout on bit WT = Worn teeth/cutters NO = No major/other dull Characteristics SHOW CONE NUMBER(S) UNDER LOCATION | DULL CODE DEFINITIONS L = Location codes ROLLER CONE N - Nose rows M - Middle rows G - Gage rows A - All rows FIXED CUTTER C - Cone N - Nose T - Taper S - Shoulder G - Gage A - All areas | B = BEARING DULL CODE Grade non-sealed bearings based on estimate of remaining life. 0 = No life used 8 = All life used SEALED BEARINGS E - Seals effective F - Seals failed N - Not able to grade X - Fixed cutter bits G = GAGE WEAR I - In gage Measure in 1/16 inch undergage. | R = REASON PULLED or RUN TERMINATED BHA - Chg bottom hole assy. DMF - Downhole motor failure DSF - Drilling string failure DST - Drill stem test DTF - Downhole tool failure CM - Condition mud CP - Core point DP - Drill plug FM - Formation Change HP - Hole problems HR - Hours on bit LIH - Left in hole LOG - Run logs PP - Pump pressure PR - Penetration rate RIG - Rig repairs TD - Total depth/CGS depth TW - Twist off TQ - Torque WC - Weather conditions WO - Washout drill string | CUTTING STRUCTURE | | | | B | G | REMARKS | |
| | | | | | Inner Rows (I) | Outer Rows (O) | Dull Char (D) | Location (L) | Bearing Seal (B) | Gage (G) | Other Dull (O) | Reason Pulled (R) |

09/27/2005

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Smith International

Standard Bit Record

Phone 940-627-6260

Document Number

Tool Pushers

Company Representatives

SERGIO
GW HAYDEN

Smith Representative

ROBERT WARD

JA000057

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| | | | | | | | | | | | | | | | |
|---------------------------------|--------------------------------|---|------------------------------------|-----------------------|---------------------------------|-----------|--|-------|---------------------------------|--|--------|--|---------------------|-------|-------------------------------|
| OPERATOR DALE OPER | | CONTRACTOR NABORS DRLG | | RIG NO. 722 | BLOCK | SUB-BLOCK | LEASE/WELL NAME GATEWAY PARK | | WELL # #2 | WELL DEPTH (ft) / EST DEPTH (ft) 11000 10000 | | | | | |
| COUNTRY UNITED STATES | STATE/PROVINCE TEXAS | COUNTY/DISTRICT TARRANT | | QOSEC | QSEC/LSD | SECTION | TOWNSHIP | RANGE | FIELD | API WELL # - - - - | | | | | |
| LEGAL | | RIG TYPE LAND | DRILL PIPE | | SIZE (in) | | WT (lbs/ft) | | SPUD DATE 16-Jun-2005 | | | | | | |
| CONTRACT TYPE DAYWORK | | RIG ELEVATION/ (ft) WATER DEPTH (ft) | WELL CATEGORY HORIZONTAL | | TOOL JOINT | | SIZE (in) | | TYPE | | UTM | LAT/LONG 32.77491N / 97.26872W | UNDER SURF | | |
| FOOTAGE CONTRACT | | ONSHORE | ___Tight Hole | | WELL TARGET GAS | | DRILL NO. | NO | O.D. | I.D. | LENGTH | PUMP MAKE GARDNER-DENVER PZ8 | MODEL PZ8 | LINER | INT DATE |
| TO DEPTH (ft) | | PARTIAL Well | ___ReEntry | | WELL TYPE DEVELOPMENT | | DRILL NO. | NO | O.D. | I.D. | LENGTH | PUMP MAKE GARDNER-DENVER PZ8 | MODEL PZ8 | LINER | TD DATE 18-Jul-2005 |

Well Comments:

| BIT NO. | BIT SIZE (Inches) | BIT MFR | BIT TYPE | SERIAL NUMBER | JETS (32nds) | DEPTH OUT (ft) | DRILLED (ft) | HOURS | ROP (ft/hr) | MOTOR RPM | TOTAL RPM | WOB (klbs) | D R I V E | DEV IN | MUD / HYDRAULICS | | | | | CUTTING STRUCTURE | | | | BEARING | | | REMARKS | | | FORMATIONS/ RUN DATE | | | |
|-----------------------------------|-------------------|---------|----------|---------------|--------------|----------------|--------------|-------|-------------|-----------|-----------|------------|-----------|--------|------------------|---------------|-------------|-----------|-----|-------------------|---|----|---|---------|---|---|---------|----|-------------|----------------------|-------------|-------------|--|
| | | | | | | | | | | | | | | | TYPE | Flo-Mud (cpm) | Press (psi) | PV (mPas) | HSI | I | O | D | L | 1 | 2 | 3 | G | O | R | | | | |
| 1 | 12.25 | RTC | TCI | 1051089 | 14. x 3 | 1300 | 1300 | 24.5 | 53.1 | 0 | 80 | 35.0 | | | WATER | 384.00 | 800 | | 1.0 | 2 | 2 | WT | A | E | E | E | IN | TD | 16-Jun-2005 | | | | |
| Comments: BIT/SS/XO/Z1DC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 8.75 | HTC | GX22S | 6037013 | 14. x 3 | 1397 | 97 | 3.5 | 27.7 | 120 | 165 | 35.0 | | | WATER | 384.00 | 1700 | | 2.0 | 3 | 5 | WT | A | E | E | E | IN | BT | PR | 19-Jun-2005 | | | |
| Comments: BIT/MM/XO/IB/DC/IB/20DC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 2564 | 1264 | 23.0 | 55.0 | 120 | 165 | 35.0 | | | WATER | 384.00 | 1700 | | 2.0 | | | | | | | | | | | | 20-Jun-2005 | | |
| | | | | | | | | 47.5 | | 120 | 165 | 40.0 | | .8 | 8.20 | | 28 | | 444 | | | | | | | | | | | | 21-Jun-2005 | | |
| | | | | | | 3079 | 1779 | 34.5 | 51.6 | 120 | 165 | 35.0 | | | WATER | 384.00 | 1700 | | 2.0 | | | | | | | | | | | | 21-Jun-2005 | | |
| Comments: BIT/MM/XO/IB/DC/IB/20DC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 8.75 | HTC | GX22S | 527X | 15. x 1 | 3916 | 837 | 23.0 | 36.4 | 120 | 181 | 40.0 | | | WATER | 209.00 | 2000 | 9.0 | 0.3 | 4 | 5 | WT | A | E | E | E | 1 | BT | PR | 22-Jun-2005 | | | |
| Comments: BIT/MM/XO/IB/DC/IB/20DC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 4495 | 1416 | 47.0 | 30.1 | 120 | 181 | 40.0 | | | WATER | 209.00 | 2000 | 9.0 | 0.3 | | | | | | | | | | | | | 23-Jun-2005 | |
| | | | | | | | | 106.0 | | 120 | 181 | 40.0 | | 35.0 | 9.40 | | 37 | | 131 | | | | | | | | | | | | 23-Jun-2005 | | |
| | | | | | | 4638 | 1559 | 53.5 | 29.1 | 120 | 181 | 40.0 | | | WATER | 209.00 | 2000 | 9.0 | 0.3 | | | | | | | | | | | | | 24-Jun-2005 | |
| Comments: BIT/MM/XO/IB/DC/IB/20DC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 112.5 | | 120 | 181 | 40.0 | | 83.0 | 9.40 | | 37 | | 131 | | | | | | | | | | | | 24-Jun-2005 | | |

