

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised August 1, 2011

| | | |
|--|--|---|
| SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) | | WELL API NO. 30-025-25819 |
| 1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <u>INJECTION</u> | | 5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 2. Name of Operator CHEVRON U.S.A. INC. | | 6. State Oil & Gas Lease No. |
| 3. Address of Operator 15 SMITH ROAD, MIDLAND, TEXAS 79705 | | 7. Lease Name or Unit Agreement Name CENTRAL VACUUM UNIT |
| 4. Well Location Unit Letter A: 1310 feet from the NORTH line and 1230 feet from the EAST line Section 31 Township 17-S Range 35-E NMPM County LEA | | 8. Well Number 61 |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.) | | 9. OGRID Number 4323 |
| | | 10. Pool name or Wildcat VACUUM GRAYBURG SAN ANDRES |

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER:

OTHER RESTORE MECHANICAL INTEGRITY - STIM

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

FOR WORK DONE 12-10-2012/02-04-2013

PLEASE SEE ATTACHED SUMMARY REPORT

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Denise Pinkerton TITLE: REGULATORY SPECIALIST DATE: 02-18-2013

Type or print name: DENISE PINKERTON E-mail address: leakejd@chevron.com PHONE: 432-687-7375

APPROVED BY [Signature] TITLE Dist. Mgr DATE 2-21-2013

Conditions of Approval (if any):

FEB 21 2013

GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK

BR 2227

DATE 02-04-13
WELL NAME CVE # 61
SUPERVISOR DAVID BRANNETT
PACKER TYPE B31-8
PACKER SETTING DEPTH 4270-4315
TEMPERATURES 4352

HOBBS OGD

FEB 20 2013

RECEIVED

START 09:13

END 10:43



Summary Report

Major Rig Work Over (MRWO)

Stimulation

Job Start Date: 12/10/2012

Job End Date: 2/4/2013

| | | | | | |
|---|-------------------------------|------------------------------|----------------------|---------------------------------------|------------------|
| Well Name CENTRAL VACUUM UNIT WI-061 | | Lease Central Vacuum Unit | Field Name Vacuum | Business Unit Mid-Continent/Alaska | |
| Ground Elevation (ft) 3,975.00 | Original RKB (ft) 3,987.00 | Current RKB Elevation | | Mud Line Elevation (ft) | Water Depth (ft) |

Report Start Date: 12/10/2012

Com

ROAD RIG TO LOCATION

SPOT IN AND RIG UP PULLING UNIT, FRAC TANKS, REVERSE PUMP AND PIT, RIG UP KILL LINES, UNLOAD BRINE WATER INTO FRAC TANK

CHANGE OUT SAFETY CRITICAL EQUIPMENT THAT IS OUT OF DATE

CREW TRAVEL FROM LOCATION TO YARD

Report Start Date: 12/11/2012

Com

CREW TRAVEL FROM YARD TO LOCATION

MAKE OUT AND DISCUSS JHA, FLOWING WELL TO REDUCE PRESSURE, (TENENT # OPERATE WITHIN DESIGN AND OPERATIONAL LIMITS)

TUBING FLOWING AT 750 PSI, CASING 0 PSI, OPEN CHOKE AT HEADER TO 190 PSI AND LET WELL FLOW DOWN

CREW TRAVEL FROM LOCATION TO YARD

Report Start Date: 12/12/2012

Com

CREW TRAVEL FROM YARD TO LOCATION

MAKE OUT AND DISCUSS JSA, FLOWING WELL, PUMPING KILL FLUID, ND WH, SET PACKER, NU AND TEST BOP (TENET # 2-- OPERATE IN A SAFE AND CONTROLLED CONDITION)

SPOT IN AND RIG UP PRO WIRELINE CHOKE MANIFOLD AND FLOW LINES TO FLOW BACK TANK

TUBING 800 PSI, CASING 0 PSI, OPEN TUBING TO FLOW BACK TANK, FLOWED DOWN TO 600 PSI, MADE 200 BBLS OF FLUID, SHUT WELL IN

RIG UP RIG, TUBING 700 PSI, PUMP AND PUMP 20 BBLS DOWN TUBING AND PUT WELL ON A VACUUM, RIG UP TO CASING AND PRESSURE TEST TO 500 PSI, HELD 15 MIN, NO LEAK OFF

HOLD TAIL GATE SAFETY MEETING, RIG UP GRAY WIRELINE TO PERFORATE THE TUBING

RIH WITH A 1-3/8" TUBING GUN TO 4360' AND GUNS BECAME STUCK

WORKED THE LINE UP AND DOWN TO TRY AND UNSTICK, FINALLY WORKED IT LOOSE, PULLED UP TO 4245' (COLLAR AT 4228') TO PERFORATE AND IT SHOWED A DIRECT SHORT

POOH AND FOUND WE HAD PULLED OUT OF THE ROPE SOCKET, RIG DOWN WIRELINE LUBRICATOR

FAN RIG PUMP AND DRAIN LINES, SECURE LOCATION, SHUT DOWN OVERNIGHT

CREW TRAVEL FROM LOCATION TO YARD

Report Start Date: 12/13/2012

Com

CREW TRAVEL FROM YARD TO LOCATION

MAKE OUT AND DISCUSS JSA, PERFORATING, ND WH, SET RBP, NU BOP, TOOH (TENENT # 3 ENSURE SAFETY DEVICES ARE IN PLACE AND FUNCTIONING)

RIG UP GRAY WIRELINE EQUIPMENT

RIH WITH 1-3/8" PERFORATING GUNS AND PERFORATE 4 HOLES AT 4245', POOH, GUNS FIRED

RIG DOWN WIRELINE

RIG UP RIG PUMP TO TUBING

CIRCULATE TUBING AND CASING WITH 65 BBLS OF BRINE WATER

NIPPLE DOWN WELL HEAD

NIPPLE UP BOP

RIG UP FLOOR, HAND RAILS, STAIRS AND TONGS

SHUT DOWN AND EAT LUNCH

ATTEND PHONE CONFERENCE SHUT DOWN FOR REFOCUSING ON SAFETY AND COMMITMENT TO BE IFO THE REST OF 2012

TUBING 0 PSI, CASING 0 PSI, TOOH AND LAY DOWN 65 JOINTS OF 2-3/8" POLILINED PRODUCTION TUBING, SHUT WELL IN, DRAIN RIG PUMP AND LINES, SECURE LOCATION, SHUT DOWN OVERNIGHT

CREW TRAVEL FROM LOCATION TO YARD

Report Start Date: 12/14/2012

Com

CREW TRAVEL FROM YARD TO LOCATION

MAKE OUT AND DISCUSS JSA, (STAYING FOCUSED ON THE TASK AT HAND), KILLING WELL, TOOH, TIH WITH WORK STRING (TENENT # 4 FOLLOW SAFE WORK PRACTICES AND PROCEDURES)

TUBING 500 PSI, CASING 1000 PSI, OPEN WELL TO FLOW BACK TANK AND FLOW WELL DOWN TO 400 PSI

PUMP CASING AND TUBING CAPACITY WITH BRINE WATER TO KILL WELL

TOOH AND FINISH LAYING DOWN PRODUCTION STRING

CHANGE OUT PRODUCTION STRING FOR WORK STRING ON PIPE RACKS, PREP AND TALLY TUBING

MAKE UP 3-7/8" DRILL BIT AND BIT SUB ON TUBING AND TIH

SHUT DOWN AND EAT LUNCH

TIH TO 1750'



Summary Report

Major Rig Work Over (MRWO)

Stimulation

Job Start Date: 12/10/2012

Job End Date: 2/4/2013

| | | | | | |
|---|-------------------------------|------------------------------|----------------------|---------------------------------------|------------------|
| Well Name CENTRAL VACUUM UNIT WI-061 | | Lease Central Vacuum Unit | Field Name Vacuum | Business Unit Mid-Continent/Alaska | |
| Ground Elevation (ft) 3,975.00 | Original RKB (ft) 3,987.00 | Current RKB Elevation | | Mud Line Elevation (ft) | Water Depth (ft) |

Com

SHUT DOWN DUE TO LIGHTNING AND HARD RAIN, AFTER THE RAIN STORM WENT THRU, HIGH WINDS (40 MPH PLUS) KICKED UP AND SHUT US DOWN FOR THE REST OF THE DAY, SECURE WELL, SHUT DOWN FOR THE WEEKEND

NO ACTIVITY ON LOCATION

Report Start Date: 12/17/2012

Com

CREW TRAVEL FROM YARD TO LOCATION

MAKE OUT AND DISCUSS JSA, KEEP EVERYONE FOCUSED ON WORK, BLOWING WELL DOWN, TIH WITH TUBING, RU POWER SWIVEL, CLEAN OUT FILL (TENENT # 7 -- COMPLY WITH ALL APPLICABLE RULES AND REGULATIONS)

TUBING 550 PSI, CASING 1000 PSI, BLOW WELL DOWN TO FLOW BACK TANK

PUMP CASING CAPACITY, CIRCULATE TUBING CAPACITY

FINISH RIH WITH BIT AND TUBING AND TAG FILL AT 4470'

RIG UP POWER SWIVEL

CLEAN OUT TO 4770' (TUBING MEASUREMENT), RETURNS WERE FRAC SAND AND SCALE

CIRCULATE WELL TO CLEAN UP

RIG DOWN POWER SWIVEL

PULL TUBING ABOVE PERFS, SECURE WELL, SHUT DOWN OVERNIGHT

CREW TRAVEL FROM LOCATION TO YARD

Report Start Date: 12/18/2012

Com

CREW TRAVEL FROM YARD TO LOCATION

MAKE OUT AND DISCUSS JSA, FLOWING WELL DOWN, PUMPING TO KILL WELL, TOO, RIH AND PERF, TIH WITH KILL STRING (TENENT # 8 -- ADDRESS ABNORMAL CONDITIONS)

TUBING 500 PSI, CASING 900 PSI, FLOW WELL DOWN TO FLOW BACK TANK

PUMP CASING CAPACITY AND CIRCULATE TUBING CAPACITY TO KILL WELL

TOOH AND STANDBACK TUBING

SPOT IN AND RIG UP BAKER ATLAS WIRELINE TRUCK, RIG UP LUBRICATOR

RIH WITH 3.70 GAUGE RING AND CCL AND TAGGED AT 4430', POOH, (WILL NEED TO RIH WITH 3-7/8" JUNK MILL STRING MILL TO CLEAN OUT SCALE)

RIG DOWN WIRELINE TRUCK, (SMITH WILL HAVE TO GET A JUNK MILL REDRESSED, WILL RUN COLLARS AND MILLS IN THE AM), SECURE WELL, SHUT DOWN OVERNIGHT

CREW TRAVEL FROM LOCATION TO YARD

Report Start Date: 12/19/2012

Com

CREW TRAVEL FROM YARD TO LOCATION

MAKE OUT AND DISCUSS JSA, KILLING WELL, TIH WITH MILL AND TUBING, CLEANING OUT SCALE, PULL ABOVE PERFS (TENENT # 9--FOLLOW WRITTEN PROCEDURES FOR HIGH RISK OR UNUSUAL SITUATIONS)

CASING 1000 PSI, FLOW WELL DOWN TO FLOW BACK TANK

PUMP CASING CAPACITY TO KILL WELL

TIH WITH A 3-1/2" CONCAVE MILL, DRILL COLLAR, 3-7/8" STRING MILL AND 2-3/8" TUBING, TO 2500', WIND BECAME TO STRONG TO CONTINUE, SECURE LOCATION, SHUT DOWN OVERNIGHT

CREW TRAVEL FROM LOCATION TO YARD

Report Start Date: 12/20/2012

Com

CREW TRAVEL FROM YARD TO LOCATION

MAKE OUT AND DISCUSS JSA, BLOWING WELL DOWN, TIH WITH TUBING, CLEAN OUT SCALE, TOO, RIH WITH WIRELINE, PERFORATE (TENENT # 10--INVOLVE THE RIGHT PEOPLE IN DECISIONS THAT AFFECT PROCEDURES AND EQUIPMENT)

TUBING 500 PSI, CASING 1000 PSI, BLOW WELL DOWN TO FLOW BACK TANK

PUMP CASING CAPACITY AND CIRCULATE TUBING VOLUME WITH BRINE WATER

TIH AND TAG SCALE AT 4470',

RIG UP POWER SWIVEL

CLEAN OUT SCALE FROM 4450' TO 4590'

RIG DOWN POWER SWIVEL

TOOH WITH TUBING AND LAYDOWN DRILL COLLAR AND MILLS

HOLD TAILGATE SAFETY MEETING WITH BAKER ATLAS

RIG UP BAKER ATLAS WIRELINE TRUCK

RUN IN HOLE WITH 3.72" GAUGE RING TO 4420' COULD NOT GET ANY LOWER

POOH WITH GAUGE RING

RIG DOWN WIRELINE



Summary Report

Major Rig Work Over (MRWO)
Stimulation
Job Start Date: 12/10/2012
Job End Date: 2/4/2013

| | | | | | |
|---|-------------------------------|------------------------------|----------------------|---------------------------------------|------------------|
| Well Name CENTRAL VACUUM UNIT WI-061 | | Lease Central Vacuum Unit | Field Name Vacuum | Business Unit Mid-Continent/Alaska | |
| Ground Elevation (ft) 3,975.00 | Original RKB (ft) 3,987.00 | Current RKB Elevation | | Mud Line Elevation (ft) | Water Depth (ft) |

Com

PICK UP AND MAKE UP 3-7/8" CONCAVE MILL, 1 3-1/8" DRILL COLLAR AND A 3-7/8" STRING MILL

TRIP IN HOLE WITH 40 STANDS, SECURE WELL, SHUT DOWN OVERNIGHT

CREW TRAVEL FROM LOCATION TO YARD

Report Start Date: 12/21/2012

Com

CREW TRAVEL FROM YARD TO LOCATION

MAKE OUT AND DISCUSS JSA, KEEPING FOCUSED ON JOB TASK, BLOWING WELL DOWN, KILLING WELL, RIGGING UP SWIVEL, CLEANING SCALE, RIGGING DOWN SWIVEL, TOOH, RIGGING UP WIRELINE, PERFORATING, TIH WITH KILL STRING (TENENT # 1 OPERATE WITHIN DESIGN & ENVIROMENTAL LIMITS)

TUBING 50 PSI, CASING 450 PSI, BLOW WELL DOWN TO FLOW BACK TANK

PUMP CASING CAPACITY TO KILL WELL

TIH WITH TUBING TO 4400'

RIG UP POWER SWIVEL

WORK STRING MILL FROM 4400' TO 4450' TO TRY AND CLEAN UP CASING

RIG DOWN POWER SWIVEL

TOOH WITH TUBING AND LAYDOWN MILLS AND DRILL COLLAR

SPOT IN AND RIG UP BAKER WIRELINE TRUCK

PERFORATE FROM 4460' TO 4430' AT 6 SPF WITH NO PROPELLANT SLEEVES, TRIED TO RUN SLEEVES ON THIRD GUN AND IT WOULD NOT GO PAST 17', CALLED LARRY BIRKLEBACK AND THE DISICION WAS MADE TO SHOOT WITH OUT SLEEVES, PERFORATE 4390' TO 4350' AT 6 SPF AND NO PROPELLANT SLEEVES

RIG DOWN WIRLEINE TRUCK, SECURE LOCATION, SHUT DOWN FOR THE HOLIDAY WEEKEND

CREW TRAVEL FROM LOCATION TO YARD

Report Start Date: 12/26/2012

Com

Travel Time for Rig Crew

JSA Safety Meeting. Discussed Tenet #6, Hazard ID Wheel #6 & E Colors & #6. Discussed BD Well, Killing Well 7 TIH w/ Pkr & RBP Testing Tbg

Attempt to BD Well, had H2S Monotors going off on Pulling Unit. SI Well & wait for wind to change.

1100psi on well upon opening. BD CO2 Gas w/ slight H2S Gas & SI due to sensors going off on Pulling Unit. DXP checked air & concentration was minimal SI Well to wait for wind to chnage direction.

Pump 65 bbls 10# Brine Water & Bull Head into formation @ 1 1/2BPM @ 500psi

JSA Safety Meeting w/ Hydrostatic Testers & discussed RU & RD of testing equipment.,

RO Hydrostatic Tubing Testers Equipment

TIH w/ Peak 4 1/2 TS RBP & HD Pkr Testing Tbg to 5500psi below slips to 1943 ft & stop.

Well started flowing back while TIH w/ Tools. Pumped 65 bbls 10# Brine Water down Tbg. Formation is chargewd up

Flow Down well @ about 1 BPM flowing back to Pit.

Pmp 65 bbls 10 # Brine Water down Tbg to Kill Well. Well dead but end of the day. SI

RD Tubing Testers & SI Well

Travel Time for Rig Crew

Report Start Date: 12/27/2012

Com

Travel Time for Rig Crew

JSA Safety Meeting. Discussed Tenet # 7, Hazard ID Wheel #7, E Collors #7. Discussed the days job procedure & hazards of BD Well, Kill Well, TIH w/ Pkr & RBP.

950psi on well. BD Well w/ CO2 & Fluid

950psi on well. BD Well w/ CO2 & fluid to 400 psi. Pump 15 bbls 10# Brine down Tbg & 50 bbls 10# Brine down Annulus.

TIH Testing Tbg to 5000psi below slips w/ Peak 4 1/2" HD Pkr & TS RBP

Attempt to set TS RBP & unable to obtain torque to set tool. TIH to TD @ 4771ft & tag up. Pull up hole & attempt to set TS RBP. Unable to set tool. Well started flowing again.

Pmp 15 bbls down Tbg & 50 bbls down Annulus & kill well.

TOH to 4250 ft w/ TS RBP & set RBP. Conclusion: There appears to be no casing from 4500 ft to 4771 ft sufficient to set tools. Notified Larry Birklebach. Decision was made to TOH w/ RBP & TIH back in w/ HD Pkr.

BD Well & Pmp 15 bbls 10# Brine down Tbg & 50bbls down Annulus

TOH w/ TS RBP & HD Pkr

BD Well & Pmp 15bbls 10# Brine down Tbg & 50 bbls 10# Brine down Annulus to kill well.

TOH w/ TS RBP & HD Pkr

BD Well & Pmp 10bbls down Tbg & 50 bbls

TOH w/ TS RBP & HD Pkr to 1518ft & got flow back. Well SI for the day.

Close BOP & Lock Pipe ams, Install TIW Vlve w/ Night Cap & close in well.



Summary Report

Major Rig Work Over (MRWO)

Stimulation

Job Start Date: 12/10/2012

Job End Date: 2/4/2013

| | | | |
|---|-------------------------------|-----------------------|---|
| Well Name CENTRAL VACUUM UNIT WI-061 | Lease Central Vacuum Unit | Field Name Vacuum | Business Unit Mid-Continent/Alaska |
| Ground Elevation (ft) 3,975.00 | Original RKB (ft) 3,987.00 | Current RKB Elevation | Mud Line Elevation (ft) Water Depth (ft) |

Com

Travel Time for Rig Crew

Report Start Date: 12/28/2012

Com

Travel Time for Rig Crew

JSA Safety Meeting. Discussed Tenet #8, Hazard ID Wheel #8, E Colors #8. Discussed the days job procedure of BD Well, Kill well, TOH w/ Pkr & RBP, TIH w/ Pkr & hazards involved in eah job issue. Be aware of pressure & rotating equipment, be aware of any & all chemicals on location.

950 psi on well. BD Well for 90 mins to get head off of formation..

Pmp 65 bbls 10# Brine Water Down Tbg & Csg at same time into formation. Unable get well to Kill. Pmp an additional 30 bbls 10# Brine down Tbg & Csg at same time & got a well Kill.

TOH w/ TS RBP & HD Pkr

TIH w/ 4 1/2" Peak HD Pkr to 4250 ft

Load Annulus w/ 90bbls 10# Brine Water & pressure up on HD Pkr to 500psi & held

MIRU & RU Petroplex Acid equipment.

JSA safety meeting, discussed haards working w/ Acid, Salt Pressures & chemicals. Discussed emergency evacuation & availibility of emergency Shower Trailer.

Start Acid Job. Test Lines to 6000 psi. Start 12bbls 15% HCL Acid @ 7.1BPM @ 2882psi. Run 5000# Rock Salt Block w/ 40bbls 10# Brine Water Gel.

Continued w/ Acid Job Acid on formation @ 3251 psi @ 6.9 BPM w/ 80bbls total Fluid pumped. Started 2nd Rock Salt Block w/ 2000# Salt & 40 bbls 10# Brine water Gel.@ 2810 psi @ 7.1 BPM

Continued 15% Acid Job @ 3609 psi @ 7.1 bpm w/ Acid on formation. 3rd Stage Rock Salt Block w/ 2000# Salt & 40 bbls 10# Brine Water gel @ 3683 psi @ 7.1 BPM.

Last stage of 15% Acid Pumped & started w/ 10 bbls Fresh Water Flush & switched to 10# Brine Water Flush w/14 bbls to prevent freezing of Tbg @ surface. ISIP: 946 psi.

Acid Job complete. SI PSI: 5min: 739 psi, 10min: 700 psi, 15min: 660 psi. Well was SIFN w/ 500psi on Annulus. Total Fluid Pumped 431 bbls. Max PSI 4047 psi, Max Rate: 7.1 BPM, Avg Rate: 7 BPM. Avg PSI: 3540 psi. Rock Salt Diversion appeared to work even though the entire Perforated Zone was treated due lack of pipe integrity to set an RBP for isolating zones.

RD Petroplex Acidizing equipment. Secure well w/ 10,000# Treating Valve & Bull Plug w/ Gage. BOP were previously closed & locked prior to Acid Job.

RU Water Trks & blow off 10# Brine Water to Frac Tank. Unload BD Frac Tank & haul to disposal.

Well SI & location clead up & drained all water lines as needed.

Travel Time for Rig Crew

Report Start Date: 1/2/2013

Com

Travel Time for Rig Crew

JSA Safety Meeting. Discussed Tenet #2, Hazard ID Wheel #2, E Colors #2. Discussed the days job procedure & hazards involved in RU Flow Back equipment, wellbore pressure, H2S in the area from Flowback Tank, watching fluid levels in flowback tank. RU of Swab Lubricator & operating procedures for swabbing.

MIRU & RU Pro Testing Manifold to the 2 3/8" Tbg

1050 psi on well. Flowdown well on 12 choke & start flowing back Acid job from Friday. Total load to retrieve is 431bbls. 1st Hr got back CO2 Gas.

Started getting fluid back w/ CO2.

SI well to unload 10# Brine Water into Flowdown Tank. Unload 120bbls Flowback Water to disposal. Pressure @ 300 psi when SI

Open Well back up w/ 600psi. Flowdown & pressure holding @ 400 psi & flowing back CO2 gas Formation Acid Water.Flowback Choke @

Well SI w/ 400 psi. H2S Monitors going off on Pulling Unit due to wind change on location & well secured to prevent an incident. Main valve closed on 2 3/8" Tbg & BOP checked & locked in place.

Travel Time for Rig Crew

Report Start Date: 1/3/2013

Com

Travel Time for Rig Crew

JSA Safety Meeting. Discussed Tenet #3, Hazard ID Wheel #3, E Colors #3. Discussed the days job procedure & hazards involved in flow back operations. Be aware of pressure & H2S Gas from well.

Start flow down of well. 1000 psi on well upon opening. Flow back CO2 w/ no fluid the 1st hr

Safety Meeting. Discussed Hazard Hunt for Pressure. Discussed the different types of pressure on location including well pressure, pump pressure, air pressure, hydraulic pressure & pressure from engines on equipment. Discussed theways of preventing pressure involved accidents.

Continued to fflow down well @ 400 psi w/ full open choke. Started getting some fluid back w/ CO2 Gas.

Well SI. Flowed back about 140 bbls from Acid Job completeing the 431 bbls of total volume.

Travel Time for Rig Crew

Report Start Date: 1/4/2013

Com

Snow & Ice on Rig. Stop Work Authority Used due to Weather Conditions by Vendors & Chevron.

Report Start Date: 1/7/2013



Summary Report

Major Rig Work Over (MRWO)

Stimulation

Job Start Date: 12/10/2012

Job End Date: 2/4/2013

| | | | | | |
|---|-------------------------------|------------------------------|----------------------|---------------------------------------|------------------|
| Well Name CENTRAL VACUUM UNIT WI-061 | | Lease Central Vacuum Unit | Field Name Vacuum | Business Unit Mid-Continent/Alaska | |
| Ground Elevation (ft) 3,975.00 | Original RKB (ft) 3,987.00 | Current RKB Elevation | | Mud Line Elevation (ft) | Water Depth (ft) |

Com

Travel Time for Rig Crew

JSA Safety Meeting. Discussed Tenet #7, Hazard ID Wheel #7, E Colors #7. Discussed the days job procedure & hazards in BD well, Kill Well & TOH laying down Tbg. Discussed pressures, suspended loads & cold weather conditions. Also moving Tbg from racks on location.

1050 psi on well. BD Well for 2 hrs to reduce CO2 content & H2S from well.

500psi on Tbg. Annulus 0 psi. Pmp 35 bbls 10# Brine Water down Tbg to kill well. Continue loading hole to keep casing dead.

TOH w/ 4 1/2" Peak HD pcker laying down 2 3/8" W S Tubing.

TIH w/ 20 stds 2 3/8" W S Tbg for Kill String

Well SIFN. Close BOP & Lock Pipe Rams. Install TIW Valve w/ Night Cap.

Travel Time for Rig Crew

Report Start Date: 1/8/2013

Com

CREW TRAVEL FROM YARD TO LOCATION

MAKE OUT AND DISCUSS JHA, (TENENT # 8, E-COLORS # 8 AND HAZARD WHEEL), KEEPING FOCUSED ON JOB AT HAND, BLOWING WELL DOWN, KILLING WELL, TOOHO AND LAYING DOWN TUBING, CHANGING OUT TUBING, TIH WITH PROD TUBING AND PRODUCTION PACKER

TUBING 750 PSI, CASING 750 PSI, BLOW WELL DOWN TO FLOW BACK TANK DOWN TO 200 PSI

PUMP DOWN TUBING AND CASING WITH 40 BBLs OF 10 # BRINE TO KILL WELL

TOOH AND LAYDOWN 40 JOINTS OF 2-3/8" WORK STRING ON PIPE RACKS,

SWAP OUT WORK STRING FOR 2-3/8" FIBERLINED PRODUCTION STRING ON PIPE RACKS

MAKE UP A 4-1/2" ARROW SET 1 - X, NICKLE PLATED OD AND PLASTIC COATED ID PACKER AND TIH WITH 2-3/8" FIBERLINED TUBING WITH TUBOSCOPE HAND ON FLOOR

CREW SHUT DOWN AND EAT LUNCH

PUMP 30 BBLs OF 10 # BRINE WATER TO KILL WELL

FINISH TIH WITH PACKER

LOAD TUBING WITH WATER, SET PACKER AT 4270'

PRESSURE TEST CASING TO 500 PSI, WOULD LOSE 50 PSI IN 12 MIN, RESET PACKER AT 4255', PRESSURE TEST TO 500 PSI, LOSE WAS THE SAME, SUSPECT CO2 GAS IN ANNULAS

RESET PACKER AT 4270', WILL CIRCULATE CASING WITH BRINE WATER IN THE AM AND TEST AGAIN, SECURE LOCATION, SHUT DOWN OVERNIGHT

CREW TRAVEL FROM LOCATION TO YARD

Report Start Date: 1/9/2013

Com

CREW TRAVEL FROM YARD TO LOCATION

MAKE OUT AND DISCUSS JSA, (TENENT # 9, E-COLORS # 9, HAZARD WHEEL), STAYING FOCUSED ON JOB AT HAND, CIRCULATING, RIGGING DOWN FLOOR, NIPPLING DOWN BOP, NIPPLING UP WELL HEAD, RUN MIT TEST, RIGGING DOWN UNIT

RELEASE ON AND OFF TOOL, RIG UP PUMP

CIRCULATE HOLE WITH BRINE WATER

PRESSURE TEST PACKER TO 500 PSI, WOULD LEAK OFF 50 PSI IN 10 MIN, PRESSURE UP ON TUBING, WOULD LEAK OFF 100 PSI IN 5 MIN, CLOSE TIW VALVE AND PRESSURE TEST PACKER, CASING WOULD LEAK OFF 70 PSI IN 30 MIN, TUBING HELD

RELEASE PACKER AND MOVE TO 4250', RESET PACKER

PRESSURE ANNULAS TO 500 PSI, LEAKED OFF 50 PSI IN 10 MIN

RELEASE PACKER, PUMP OFF DISC, TOOHO WITH TUBING AND PACKER

WELL STARTED FLOWING, SHUT DOWN AND EAT LUNCH AND LET WELL FLOW DOWN

PUMP 30 BBLs TO KILL WELL

FINISH TOOHO, TUBOSCOPE CALLED AND COULD NOT GET US A HAND TO RUN THE FIBERLINED TUBING BACK INTO THE WELL UNTILL AM, SECURE LOCATION, SHUT DOWN OVERNIGHT

CREW TRAVEL FROM LOCATION TO YARD

Report Start Date: 1/10/2013

Com

CREW TRAVEL FROM YARD TO LOCATION

MAKE OUT AND DISCUSS JSA (TENENT # 10, E-COLORS # 10, HAZARD WHEEL), STAYING FOCUSED ON TASK, TIH WITH TUBING, PACKER AND PLUG, SET PLUG AND TEST,

CASING 950 PSI, OPEN WELL TO FLOW BACK TANK AND FLOW WELL DOWN TO 400 PSI

PUMP 35 BBLs BRINE WATER AND KILL WELL

RACK 2-3/8" WORK STRING ONTO PIPE RACKS, MAKE UP 4-1/2" PACKER AND RBP

TIH WITH TUBING AND TOOLS

ATTEMPT TO SET RBP AT 4270', RBP WOULD SET GOING DOWN BUT WOULD NOT SET COMING UP, WORK TOOLS UP HOLE 120' ATTEMPTING TO SET RBP, WOULD NOT SET

PUMP 20 BBLs BRINE WATER TO KILL WELL



Summary Report

Major Rig Work Over (MRWO)

Stimulation

Job Start Date: 12/10/2012

Job End Date: 2/4/2013

| | | | | | |
|---|-------------------------------|------------------------------|----------------------|---------------------------------------|------------------|
| Well Name CENTRAL VACUUM UNIT WI-061 | | Lease Central Vacuum Unit | Field Name Vacuum | Business Unit Mid-Continent/Alaska | |
| Ground Elevation (ft) 3,975.00 | Original RKB (ft) 3,987.00 | Current RKB Elevation | | Mud Line Elevation (ft) | Water Depth (ft) |

Com

TOOH WITH PACKER AND PLUG

CHANGE OUT RBP'S, TIH AND SET RBP AT 4267'

PRESSURE TUBING TO 500 PSI, HELD 15 MIN, GOOD TEST, PRESSURED CASING TO 500 PSI, HELD 20 MIN, GOOD TEST, SECURE LOCATION, SHUT DOWN OVERNIGHT

CREW TRAVEL FROM LOCATION TO YARD

Report Start Date: 1/11/2013

Com

CREW TRAVEL FROM YARD TO LOCATION

MAKE OUT AND DISCUSS JSA (TENENT # 1, E - COLORS # 1, HAZARD WHEEL), PRESSURE TEST CASING, TOOH, TIH WITH NEW TOOLS, SET PLUG, CIRCULATE HOLE, TEST PLUG, TEST CASING

TUBING 180 PSI, CASING 200 PSI, BLOW CASING DOWN TO FLOW BACK TANK, PRESSURE CASING TO 500 PSI, WOULD LOSE 30 PSI IN 15 MIN, RELEASE PRESSURE LET AIR WORK OUT, PRESSURE TEST TO 500 PSI, WOULD LOSE 30 PSI IN 15 MIN, CALLED LARRY BIRKELBACH AND DISCUSSED TOOH AND CHANGE OUT PLUGS

PUMP 30 BBLs BRINE WATER DOWN TUBING TO KILL WELL,

RELEASE PACKER AND PLUG

TOOH WITH PACKER AND PLUG

TIH WITH PACKER AND NEW PLUG

SET RBP AT 4267', CIRCULATE HOLE CLEAN

PULL PACKER UP HOLE 1 JOINT TO 4234' AND SET, PRESSURE TEST RBP TO 500 PSI, HELD 30 MIN, HELD GOOD, PRESSURE TEST CASING TO 500 PSI, LOST 30 PSI IN 10 MIN, PRESSURE TO 750 PSI, LOST 30 PSI IN 10 MIN, PRESSURE TO 1000 PSI, LOST 34 PSI IN 10 MIN, HIGH WINDS WERE BLOWING AND WE COULD NOT TRIP PIPE TO HUNT A HOLE, SECURE LOCATION, SHUT DOWN FOR THE WEEKEND

CREW TRAVEL FROM LOCATION TO YARD

Report Start Date: 1/14/2013

Com

CREW TRAVEL FROM YARD TO LOCATION

MAKE OUT AND DISCUSS JSA (TENENT # 4, E - COLORS # 4 AND HAZARD WHEEL) TRIPPING PIPE, PRESSURE TESTING

TUBING 0 PSI, CASING 20 PSI, OPEN WELL TO FLOW BACK TANK, NIPPLE DOWN TIW VALVE

PULL 20 STANDS OF TUBING TO 2942', TEST CASING TO 500 PSI, HELD 15 MIN, LOST 50 PSI, PRESSURE TEST DOWN TUBING, HELD 15 MIN, HELD GOOD, RELEASE PRESSURE

WORK TUBING UP AND DOWN HOLE TO ISOLATE LEAK, AT 994' THE CASING WOULD LEAK OFF FROM 500 PSI TO 350 PSI IN 15 MIN, THE TUBING WOULD LEAK OFF FROM 500 PSI TO 490 PSI IN 15 MIN, THE ACCUMULATOR WOULD NOT BUILD PRESSURE, CALLED D&L METERS AND THEY WILL SEND A MECHANIC TO LOOK AT IT

D&L METER MECHANIC SHOWED UP AND ADDED SOME HYDROLIC OIL AND RAN THE ACCUMULATOR AND IT WOULD NOT PRESSURE UP, CLOSER EXAMINATION SHOWED THE HYDROLIC PUMP HAD FAILED, WAIT FOR A REPLACEMENT, CHANGED OUT ACCUMULATOR

TIH WITH 1 JOINT (1025'), PRESSURE TEST DOWN THE TUBING TO 500 PSI, HELD 15 MIN, LOST 50 PSI, RELEASE PRESSURE, SECURE LOCATION, SHUT DOWN OVERNIGHT

CREW TRAVEL FROM LOCATION TO YARD

Report Start Date: 1/15/2013

Com

CREW TRAVEL FROM YARD TO LOCATION

MAKE OUT AND DISCUSS JHA (TENENT # 5, E - COLORS # 5 AND HAZARD WHEEL), MOVING PACKER AND HUNTING FOR A HOLE, PRESSURE TESTING CASING

WORKED THE PACKER DOWN HOLE AND FOUND THE BOTTOM OF THE HOLE AT 1200', START WORKING UP HOLE TO FIND THE TOP OF THE HOLE

FOUND THE TOP OF THE HOLE AT 632', CALLED LARRY BIRCELBACH AND DISCUSSED PICKING UP A BRIDGE PLUG AND DETERMINING IF THE INTIRE 590' IS BAD OR IF WE HAVE 2 SETS OF HOLES

CREW SHUT DOWN FOR LUNCH

TOOH WITH PACKER

TIH WITH RBP AND SET AT 1190'

TOOH

TIH WITH TENSION PACKER AND SET AT 1170',

PRESSURE TEST RBP TO 500 PSI, HELD 15 MIN, GOOD TEST, RELEASE PRESSURE

PULL PACKER TO 900', PRESSURE TEST DOWN TUBING TO 500 PSI, HELD 15 MIN, GOOD TEST, RELEASE PRESSURE

PULL PACKER TO 695', PRESSURE TEST CASING TO 500 PSI, HELD 15 MIN, GOOD TEST, RELEASE PRESSURE

PULL PACKER TO 665', PRESSURE TEST DOWN TUBING TO 500 PSI, HELD 15 MIN, GOOD TEST, RELEASE PRESSURE

PULL PACKER TO 632', PRESSURE TEST DOWN TUBING TO 1500 PSI, LOST 1000 PSI IN 45 SECONDS, SECURE WELL SHUT DOWN OVERNIGHT

CREW TRAVEL FROM LOCATION TO YARD

Report Start Date: 1/16/2013



Summary Report

Major Rig Work Over (MRWO)

Stimulation

Job Start Date: 12/10/2012

Job End Date: 2/4/2013

| | | | | | |
|---|-------------------------------|------------------------------|----------------------|---------------------------------------|------------------|
| Well Name CENTRAL VACUUM UNIT WI-061 | | Lease Central Vacuum Unit | Field Name Vacuum | Business Unit Mid-Continent/Alaska | |
| Ground Elevation (ft) 3,975.00 | Original RKB (ft) 3,987.00 | Current RKB Elevation | | Mud Line Elevation (ft) | Water Depth (ft) |

Com

CREW TRAVEL FROM YARD TO LOCATION
MAKE OUT AND DISCUSS JSA (TENENT # 6, E - COLORS # 6 AND HAZARD WHEEL, STAYING FOCUSED ON TASK, TRIPPING TUBING
TOOH WITH PACKER, TIH AND MOVE RBP TO 1255', TOOH, TIH WITH PACKER AND SET AT 1190'
PRESSURE UP DOWN TUBING TO 2000 PSI, COULD PUMP AT 1750 PSI AT 1/4 BPM
TOOH WITH PACKER, TIH AND MOVE RBP TO 690', TIH WITH PACKER AND SET AT 632'
PRESSURE UP TO 2100 PSI AND WOULD LOSE 1000 PSI IN 5 SECONDS
SHUT DOWN AND EAT LUNCH
TOOH WITH PACKER
TIH AND MOVE RBP TO 1525'
DUMP 2 SACKS OF SAND ON RBP AND LET FALL
TOOH WITH RBP OVERSHOT, SECURE LOCATION, SHUT DOWN OVERNIGHT
CREW TRAVEL FROM LOCATION TO YARD

Report Start Date: 1/17/2013

Com

CREW TRAVEL FROM YARD TO LOCATION
MAKE OUT AND DISCUSS JSA (TENENT # 7, E - COLORS AND HAZARD WHEEL), STAYING FOCUSED ON TASKS, TRIPPING IN HOLE WITH PACKER, SQUEEZING HOLE, TRIPPING OUT OF HOLE WITH PACKER
MAKE UP A 4-1/2" ARROW 32-A TENSION PACKER AND TIH TO 1025'
SPOT IN HALF TANK
SPOT IN AND RIG UP O-TEX CEMENT TRUCKS
PUMP INJECTION RATE, 1/2 BPM AT 1900 PSI, RIG DOWN CEMENT LINES
TOOH WITH PACKER, TIH WITH CEMENT RETAINER AND SET AT 1025'
MIX AND PUMP 25 SACKS (6 BBLs) OF CLASS "C" CEMENT WITH 3/10 % C-15 (WATER LOSE) AND 5 % SALT, AT 14.5 #, PUMPED AT 3/4 BPM AT 1200 PSI, CEMENT STARTED INTO FORMATION AND THE PRESSURE INCREASED TO 2100 PSI, STAGED 4 BBLs FROM 2100 PSI DOWN TO 1200 PSI AND THEN SHUT DOWN FOR 30 MIN, PRESSURE BLED DOWN TO 1100 PSI AND HELD, PUMP 1/4 BBL AND PRESSURE INCREASED TO 1800 PSI, SHUT DOWN AND IT BLED DOWN TO 1400 PSI, PULL OFF OF RETAINER AND REVERSE OUT 1/4 BBL OF CEMENT
RIG DOWN CEMENT EQUIPMENT
PULL 5 STANDS OF TUBING TO 665'
RIG UP CEMENT EQUIPMENT AND MIX AND SPOT 25 SACKS (6 BBLs) OF CLASS "C" CEMENT WITH 3/10 % C-15 AND 5 % SALT
TOOH WITH TUBING
CLOSE BLIND RAMS AND PRESSURE UP ON CASING TO 2000 PSI AND SHUT DOWN, PRESSURE WOULD FALL TO 1100 PSI, REPEAT UNTIL WE PUMPED 2.25 BBLs OF CEMENT AND THE PRESSURE STAYED AT 2000 PSI
RIG DOWN CEMENT EQUIPMENT, SECURE LOCATION, SHUT DOWN FOR THE WEEKEND
CREW TRAVEL FROM LOCATION TO YARD

Report Start Date: 1/18/2013

Com

WAIT ON CEMENT, CHANGE OUT REVERSE UNIT PUMP, CLEAN OUT HALF TANK

Report Start Date: 1/21/2013

Com

CREW TRAVEL FROM YARD TO LOCATION
Safety Meeting JSA. Discussed Tenet #1, Hazard ID Wheel #1, E Colors #1. Discussed the days job procedure of drilling out Cement. Picking up pipe, rotating equipment & pump pressures & handling Hoses.
500 psi had been left on the well since Friday & was still on the well today indicating that the Cement Column was holding. PU New 3 7/8" Bit, & 3 1/8" Drill Collars & TIH.
Tagged Cement @ 470ft & RU Power Swivel to 2 3/8" W S Tbg.
RU Power Swivel & Reverse Unit to 2 3/8" W S Tbg.
Start drilling cement @ 470 ft w/ 45 to 65 RPM, 200 psi Reverse Circ Pressure & 1K WOB. Continue drilling operations cleaning up at each connection of Tbg Drill String.
Drilled thru Cement @ 670 ft & circulate wellbore clean.
Close in Tbg & pressure test down Annulus to 520 psi & held for 10 min & had no loss in pressure.
TIH to 1020 ft & Tagged Cement on top Of 4 1/2" Cement Retainer.
Continued drilling Cement from 1020 ft on 1st sage Squeeze job to 1025ft @ top of Retainer. Drilled @ 50 to 65 RPM w/ 200psi Reverse Circ Pressure w/ less than 1K WOB
Continued drilling process on 4 1/2" Cement Retainer & was still getting a lot of Cement returns to Pipit at this Time.
While drilling process continued the 2 3/8" Tbg plugged off creating 1900 psi in Annulus & lifted the Power Swivel Unit up about 10 ft while & caused the circulating & Hydraulic Hoses to wrap around the Tbg. Rd Power Swivel & unwrap hoses from Tbg.
Install TIW Valve & Close. Close BOP & Lock. Well SI
Travel Time for Rig Crew.



Summary Report

Major Rig Work Over (MRWO)

Stimulation

Job Start Date: 12/10/2012

Job End Date: 2/4/2013

| | | | | | |
|---|-------------------------------|------------------------------|----------------------|---------------------------------------|------------------|
| Well Name CENTRAL VACUUM UNIT WI-061 | | Lease Central Vacuum Unit | Field Name Vacuum | Business Unit Mid-Continent/Alaska | |
| Ground Elevation (ft) 3,975.00 | Original RKB (ft) 3,987.00 | Current RKB Elevation | | Mud Line Elevation (ft) | Water Depth (ft) |

Report Start Date: 1/22/2013

Com

Travel Time for Rig Crew

JSA Safety Meeting. Discussed Tenet #2, Hazard ID Wheel #, & E Colors #3. Discussed the days job procedures, drilling out Cement, rotating equipment & pressures.

RU Reverse Unit Swivel equipment. No pressure on well. pressure up & test casing to 520 psi & bled off to 480psi in 20 min. Bled down to 420 psi in 1 hr, this indicated that the 1900 psi broke down the previous squeeze when Tbg plugged.

Safety Meeting. Discussed Safety information from the Midland Meeting. Talked about last years Safety Record & expectation for 2013. Also discussed Crush Points & use of Impact Gloves.

Tag up on Cement @ 1025 ft & start drilling on 4 1/2" Cement Retainer 7 had good response from the Bit. Drill w/ 55 to 65 RPM w/ 200psi on Annulus circulating PSI & 1K WOB.

PU 5 ft off of Cement @ 1030 Ft & circulate wellbore clean @ 1 1/2BPM @ 200psi.

Continue drilling Cement @ 55 to 65 RPM @ 200psi w/ 1K WOB. Have drilled past Cement Retainer 1025 ft. to TD of 1040 ft & still drilling on bottom of 4 1/2" Retainer s well as Cement.

RD Power Swivel. Install TIW Valve & Close. Close BOP & Lock. SIFN. Had a Debrief Meeting & discussed what went right; Drilled up most of Cement Retainer, What went Wrong: Did not get all the Cement drilled up. What are we going to do: Continue to drill safely & watch for hazards. About 360 ft of Cement still in wellbore.

Travel Time for Rig Crew

Report Start Date: 1/23/2013

Com

Travel Time for Rig Crew

JSA Safety Meeting. Discussed Tenet #3, Hazard ID Wheel #3, E Colors #3. Discussed the days job procedures of drilling out Cement, rotating equipment, pressure & lifting hazards associated w/ Power Swivel & Tubing Lay Down & Drill Collar PU

Start drilling on Cement @ 1040 Ft w/ 55 to 65 RPM, 200 psi Pump Pressure Reverse Circ @ 1k WOB. Made about 15ft in 2 hrs. decision was made to TOH & change out Bit & Drill String Jts as well as Drill Bit.

RD Power Swivel & Change out Elevators. to TOH

TOH w/ 2 3/8" Tbg laying down current drill string to facilitate using a different section of Tbg. Will add more Drill Collars to help in drilling out Cement. Inspection of Bit showed to have slight wear & several broken teeth off Cones.

PU New Bit 3 7/8" & 10 - 3 1/8" Drill Collars

RU Power Swivel

Start drilling Cement again @ 1055 ft @ 55 to 65 RPM @ 200psi pressure Reverse Circulating w/ 1K WOB. Drilling is still hard & returns are still hoving metal cuttings. Drilled to 1070 ft in 2 hrs.

Made Connection & continue dilling & still getting metal cuttings back. Stopped drilling @ 1070 Ft

TOH w/ 1 jt Tbg & RD Power Swivel & install TIW Valve & Night Cap & Close. Close Pipe Rams & Lock. Did debrief for the day: What Went Right: Drilled up most of the remaining Cement Retainer. What went Wrong: Did not get Cement Drilled out to deired depth. Will continue to drill out Cement

Travel Time for Rig Crew

Report Start Date: 1/24/2013

Com

Travel Time for Rig Crew. Rig Crew also has Key Safety Meeting this Mornung.

JSA Safety Meeting. Discussed Tenet #4, Hazard ID Wheel #4 & E Colors #4. Discuss days job operations of drilling out Cement, rotating equipment, pressure & overhead suspended loads, PU & lay down of Power Swivel on connections.

0 Pressure on well. TIH w/ Jt of 2 3/8" Tbg & tag up on cement @ 1070 ft & start drilling operations w/ 55 to 65 RPM, 200psi Reverse Circ pressure w/ 7 to 8K WOB to drill out last of Cement Retainer.

Make Connection & continue to dill w/ same operting process.

Drilled out Cement to 1100 ft w/ better ROP drilling up Cement. All the Retainer is gone at this point. make next Connection 7 continue drilling as designed.

Make Connection. Continue to rill Cement @ a better rate

Make a connection & continue to drill Cement as designed w/ same perimeters. Fell out of Cement @ 1180 ft.

TIH w/ 1 jt to 1221 ft & did not encounter any Cement @ this Point. Circulated well bore clean

Test Casing to 500psi & bled of to 400psi in 5 min. Pressure held for additional 15 min @ 400 psi.

RD Power Swivel & Stripping Head.

Rig Crew Lunch & Safety discussion w/ Heath Lynch about the operations of Circulating Maniflods. 7 feed back on operations when circulating

TOH w/ Drill Bit & Drill Collars.

TIH w/ Peak 4 1/2" 32-A Tension Pkr & set @ 690 ft.

Pressure up to 500psi & test Casing from ft to RBP @ 1516 ft & Pkr @ 690 ft. Bled down to 400 psi in less than 1 min & continued to bleed of slight ly to 390 psi. Bleed pressure off Tbg.

Pressure up on Annulus to 560 psi & bled dow to 470 psi in 30 min. Notified Larry Birklebach.

TIW Valve installed during test & Closed. BOP Closed & locked. SIFN

Debrief: What went right Got Retainer & Cement Drilled up, Whaat went wrong: Squeeze did not hold. What next: Wait on decision from engineering group.



Summary Report

Major Rig Work Over (MRWO)

Stimulation

Job Start Date: 12/10/2012

Job End Date: 2/4/2013

| | | | | | |
|---|-------------------------------|------------------------------|----------------------|---------------------------------------|------------------|
| Well Name CENTRAL VACUUM UNIT WI-061 | | Lease Central Vacuum Unit | Field Name Vacuum | Business Unit Mid-Continent/Alaska | |
| Ground Elevation (ft) 3,975.00 | Original RKB (ft) 3,987.00 | Current RKB Elevation | | Mud Line Elevation (ft) | Water Depth (ft) |

| | | | | | |
|---|--|--|--|--|--|
| Com | | | | | |
| Travel Time for Rig Crew | | | | | |
| Report Start Date: 1/25/2013 | | | | | |
| Com | | | | | |
| Travel Time for Rig Crew | | | | | |
| JSA Safety Meeting. Discussed Tenet #5, Hazard ID Wheel #5, E Colors #5. Discussed the days Job Procedure, TOH w/ Pkr & TIH w/ Open Ended Tbg. Also discussed Thre hazards involed in releasing Pkr & crush points during daily operations. Also discussed the previous days visit by management & discussed the feedback that was discussed. | | | | | |
| 0 PSI on well. RIs Pkr & TOH w/ Pkr. | | | | | |
| TD Open End Tbg @ 1240 ft to Spot Cement. | | | | | |
| JSA safety Meeting w/ OTC Cementing prior to RU. Discussed issues involving RU of Equipment for Cement Job. Placement of Cement Pump, Bulk Trk & Water Trk. Discussed crush points, Suspended loads | | | | | |
| MIRU OTC Cementing Equipment. & RU to well & Annulus. | | | | | |
| JSA Safety meeting / OTC & discussed the planned Job procedure. Discussed Lifting Hazard, Pump Pressures, Iron Lne lifting, communications, & Cement Dust in the air. | | | | | |
| Test Pumps & Lines to 2000 psi. Break Circ w/ Fresh Water @ 2 BPM @ 200psi w/ 24 bbls. Batch Mix 6 bbls 14.5# Cement w/ .5% Water Loss & 2% Cal Chloride. | | | | | |
| Pump 14.5# cement Slurry @ 2 BPM @ 200psi. Displace w. 3.8 bbls Fresh Water for Balanced Cement Spot. | | | | | |
| RD OTC lines from Tbg & pull up to 847 ft @ Top of cement. | | | | | |
| Reverse Circ w/ Fresh Water to clean up TOC for Squeeze. w/ 342 ft to top of leak & 3.6 bbls of Cement in Casing. | | | | | |
| TOH w/ Tbg | | | | | |
| PU 4 1/2 Peak 32-A Tension Pkr & TIH to 814 ft & set. | | | | | |
| Pressure up to 520 psi & bled down to 460 psi in 40 min. | | | | | |
| Pressure up to 620 psi & bled off to 600 psi in 30 min. | | | | | |
| Pressure up to 650 psi & held for 45 min & bled down to 630 ps & holding. | | | | | |
| Closed TIW Valve w/ 630 psi left on wellbore. Bled off all pressure from Pump Lines. Annulus still had 300psi from 500psi initial pressure up upon setting Packer. debrief went well. | | | | | |
| Travel Time for Rig Crew. | | | | | |
| Report Start Date: 1/28/2013 | | | | | |
| Com | | | | | |
| Travel Time for Rig Crew | | | | | |
| JSA Safety Meeting. Discussed Tenet # 8, Haard ID Wheel # 8, E Colors # 8. Discussed the days job procedures, Cementing, pressures, suspended loads, TOH & TIH w/ Tbg. | | | | | |
| 0 psi on well upon Opening. Pressure up below Pkr to 500 psi & held for 30 min w/o bleed off. | | | | | |
| RIs Peak 4 1/2" 32-A Pkr & TOH | | | | | |
| TIH w/ Open Ended Tbg to 690 ft & wait to RU CTC Cementing Crew. | | | | | |
| SWA - OTC Cementing Co. had 2- SSE w/o Safeland Cards or SSE information Worksheet. | | | | | |
| Pre RU JSA Safety Meeting. Dis cussed Job Operations & Lifting Iron, Suspended Loads, Pressure & Cement on Location. Also discussed backing policies on location. | | | | | |
| RU O - Tex Cementing Equip. to 2 3/8" Tbg. | | | | | |
| JSA Safety Meeting.. Discussed Cement Mixing & Pumping procedures. Be aware of Pressured lines, Lifting Suspended Loads, & cement dust in the air. | | | | | |
| Mix 25 Sks @ 14.5 PPG w/ 6 bbls Slurry Volume.. | | | | | |
| Pump 6 bbls Cement Slurry @ 117 psi @ 2 BPM . EOT @ 690 ft & displace w/ 1 bbl Fresh Water. | | | | | |
| TOH w/ 4 jts 2 3/8" Tbg & RU to Reverse out excess cement. | | | | | |
| Reverse circ 14.5# Cement from wellbore w/ 16 bbls of Fresh Water @ 230psi @ 2 BPM. | | | | | |
| TOH w/ 1 jt 2 3/8" Tbg & install 2 3/8" Pup Jt 8ft & TIH to close BOP Pipe Rams on Pup Jt | | | | | |
| Pressure up o 540 psi & bled down to 450 psi in 15 min. | | | | | |
| Increase pressure to 600 psi & bleed down 560 psi in 15 min. | | | | | |
| Pressure up to 650 psi & bled off to 600 psi in 15 min. | | | | | |
| Increase pressure to 750 psi & bled down to 700 psi in 15 miun & holding 700 psi. Total of about 1/8 of bbl Squeezed into formation. | | | | | |
| Debrief Meeting. BOP was closed & Locked. Tbg TIW valve w/ Night Cap in placae. Close off Annulus & bleed off pressur from pump lines. | | | | | |
| Travel Time for Rig Crew. | | | | | |
| Report Start Date: 1/29/2013 | | | | | |
| Com | | | | | |
| Travel Time for Rig Crew | | | | | |
| JSA Safety Meeting. Discussed Tenet # 9, Hazard ID wheel # 9, E Colors # 9. Discussed the days job procedure, TOH w/ | | | | | |
| 150 psi on well from 700 psi applied last night. Presured up to 500 psi & held fpor 30 min no bleed off. | | | | | |
| Release pressure. TOH w/ Open Ended 2 3/8" Tbg. | | | | | |
| TIH w/ 3 7/8" Skirted MTB, Bit Sub & 10 - 3 1/8" Drill Collars & 2 3/8" Tbg | | | | | |



Summary Report

Major Rig Work Over (MRWO)

Stimulation

Job Start Date: 12/10/2012

Job End Date: 2/4/2013

| | | | | | |
|---|-------------------------------|------------------------------|----------------------|---------------------------------------|------------------|
| Well Name CENTRAL VACUUM UNIT WI-061 | | Lease Central Vacuum Unit | Field Name Vacuum | Business Unit Mid-Continent/Alaska | |
| Ground Elevation (ft) 3,975.00 | Original RKB (ft) 3,987.00 | Current RKB Elevation | | Mud Line Elevation (ft) | Water Depth (ft) |

Com

Tag top of Cement @ 547 ft.

Pressure up to 500 psi & SI & watch for 30 min & holding as designed.

Close BOP & Lock Pipe Rams. TIW Valve closed & 500 psi on well at this time.

Held a debrief. Also discussed the drilling process in work over operations & got feed back from hands.

Travel Time for Rig Crew

Report Start Date: 1/30/2013

Com

Travel Time for Rig Crew

JSA Safety Meeting. Discussed Tenet # 10, Hazard ID wheel # 10, E Colors # 10. Discussed the days job procedure, suspended loads, rotating equipment, pressure & fluids. Discussed hazards of drilling process & hazard ID. Also discussed the Injured Man Safety Bulletin & how these hazards can be prevented & reduce the cause of incidents & accidents.

340 psi on well from 500 psi left on well yesterday. Bled off pressure. RU Power Swivel & 1 jt of 2 3/8" Tbg

Start drill out of Cement @ 547 ft w/ 55 to 65 RPM, 200 psi Reverse Circ pressure, 2 to 4k WOB. Continue drilling out w/ 10 # Brine Water

Drilled out Cement bottom @ 680 ft & continue in hole to 730 ft & circ well clean.

Pressure up to 520 psi & hold for 30 min & held as designed.

TIH to Ft & tagged 2nd Squeeze Cement @ 855 Ft

Start drilling Cement @ 855 ft w/ 55 to 65 RPM @ 150 psi Reverse Circ Pressure w/ 2 to 8 K WOB w/ 10 Brine Water.

Reverse Circ & clean out wellbore. SD for lunch while circulating.

Start drilling w/ 55 to 65 RPM @ 200psi Reverse Circ Pressure. w 4 to 8 K WOB. Drill down to 1057 ft & circulate wellbore clean

Close BOP & Lock, Install TIW Valve w/ Night Cap. SIFN Debrief Meeting.

Travel Time for Rig Crew

Report Start Date: 1/31/2013

Com

Travel Time for Rig Crew

JSA Safety Meeting. Discussed Tenet # 1, Hazard ID wheel # 1, E Colors # 1. Discussed the days job procedure, drilling out Cement, rotating equipment, pressure, suspended loads, crush points, climbing hazards & cold weather conditions.

0 psi on well upon opening. RU Power Swivel.

Start drilling Cement @ 1047 ft w/ 55 to 65 RPM, 200 psi Reverse Circ pressure w/ 4 to 8 K WOB. Continue drilling process as designed.

Drilled out of cement @ ft & TIH to 1235 ft circulate wellbore clean w/ 10# Brine Water.

Pressure up to 520 psi w/ 10# Brine water in wellbore & hold for 30 min. Pressure increased to 560 psi.

SD for additional time to change out Pulling Unit Alternator. Bled pressure down from 550 psi to 520 psi & pressure increased to 560 psi.

Bled off all pressure & applied 500 psi on casing. Pressure increased to 540 psi in 30 min. Pressure increase due to change in fluid temperature.

RD Power Swivel Unit & RD Stripper Head

TOH w/ 2 3/8" W S Tbg, Drill Collars & Bit.

RU Peak 4 1/2" Ret Head for TS RBP & TIH & tag Sand @ 1495 ft w/ 21 ft of fill on top of TS RBP

RU Peak Tbg Circulating Swivel to 2 3/8" W S Tbg

Reverse circulate Sand from Top of TS RBP & clean out to 1516 ft @ top of TS RBP & circulate clean w/ 10# Brine water.

Release TS RBP & TOH.

TIH w/ TS Ret Head & stop @ 1777 ft EOT.

Close BOP & Lock. Install TIW Valve & Night Cap & SIFN. held Debrief Meeting.

Travel Time for Rig Crew

Report Start Date: 2/1/2013

Com

Travel Time for Rig Crew

JSA Safety Meeting. Discussed Tenet # 1, Hazard ID wheel # 1, E Colors # 1. Discussed the days job procedure & Hazards. Discussed TOH of Hole & TIH, suspended loads laying down Tbg, rotating equipment (Tongs), winch lines, well pressure to kill well, crush points & trip hazards.

0 pressure on well. TIH w/ Ret Head.

Weekly Safety Drills & debrief review w/ Rig Crew & discussed out procedures for emergency control of a well.

TIH to latch onto TS RBP.

SI Well & latch on to TS RBP & Release RBP

Released RBP & well on slight vacuum. pumped 90 bbls 10# Brine water down Annulus to kill well.

TOH w/ TS BP

Close BOP & TIW valve in Tbg & pump 50 bbls 10# Brine to kill well.

TOH w/ 2 3/8" W S Tbg laying down. Well started gassing again w/ 76 jts in hole @ about 2371 ft.

Pump 55 bbls into formation @ 2 BPM @ 200 psi & check well & still flowing back. RU lines to Blow Down Tank & BD well during Lunch Break.

Well is still flowing back. Continue to flow back & send for Drilling Mud.



Summary Report

Major Rig Work Over (MRWO)

Stimulation

Job Start Date: 12/10/2012

Job End Date: 2/4/2013

| | | | | | |
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| Well Name CENTRAL VACUUM UNIT WI-061 | | Lease Central Vacuum Unit | Field Name Vacuum | Business Unit Mid-Continent/Alaska | |
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Com

RU Lobo Transport w/ 14.5# Mud on

Circ 9.5 bbls 14.5# Mud down Tbg w/ Annulus open & circulating w/ 9.5bbls. SI Annulus & displace Mud w/ 22 bbls down Tbg to bottom of mud @ 3700 ft.

Continue TOH w/ 4 1/2" TS RBP laying down WS Tbg.. Leave 20 std 2 3/8" W S Tbg in Derrick to TIH w/ Isolation Pkr.

TIH w/ 20 Stds 2 3/8" W S Tbg w/ Peak 4 1/2"

32-A tension Pkr & TIH to 1594 ft EOT

Close BOP & Lock. Install TIW Valve & Night Cap & Close.

Debrief meeting.

Travel Time for Rig Crew

Report Start Date: 2/2/2013

Com

Travel Time for Rig Crew

JSA Safety Meeting. Discussed Tent # 2, Hazard ID wheel #2, E Colors # 2. Discussed the days operations, laying down Tbg, working w/ suspended loads, Rotating equipment(Tongs), pressure, Crush Points, Slip, Trip & Fall Hazards. Also discussed the hazards of TIH w/ Injection Pkr.

1000 psi below 32-A Pkr, 90 psi on Annulus. BD well. CO2 Gas at surface & continue blowing down @ 300psi on Tbg

RU & Pump 22 bbls 14.5# Mud to Kill well 2 BPM @ 400 psi. & pump 15 bbls 10# Brine Water behind Mud

Release 32-A Pkr & TOH

JSA Safety Meeting w/ Tubscope. Discussed job Operations w/ TIH w/ Fiber Lined Pd Tbg. Rotating Equipment(Tongs), Well Control issues, Slips, Trips & fall Hazards. Be aware of work area & each persons position on the rig floor.

PU Peak AS-1X Injection Pkr w/ 1.4e" ID Profile Nipple & Pump Out Plug pinned to 1750 psi. Tubscope RU to drift each connection TIH.

Load Tbg w/ 10# Brine Water

Well SI for Lunch Break & check Annulus PSI.

Pump 22 bbls 14.5# Mud down Annulus to kill well. Unable to get well killed. Pump 10 bbls 14.5# Mud down Annulus & follow w/ 10 bbls 10# Brine water & killed well.

TIH w/ AS-1X Inj Pkr on 2 3/8" Fiberlined tbg.

Set AS-1X Inj Pkr w/ 8 K Compression & spaced out.

Circulate 10# Brine Water down Tbg & out Annulus @ 2 BPM @ 500 psi. Circulate 80bbls 8.4# Fresh Water w/ 55 gals Pkr Fluid blended.

Pressure test Casing w/t AS-1X Pkr to 500psi for 30 Min & Held Okay

Well SI, Install TIW Valve & Close w/ Night Cap in. Close BOP & lock Pipe Rams.

Held Debrief Meeting & discussed the days operations.

Travel Time for Rig Crew.

Report Start Date: 2/4/2013

Com

Travel Time for Rig Crew

JSA Safety Meeting. Discussed Tenet #4, Hazard ID Wheel #4, E Colors #4. Discussed the days job procedure, ND BOP Stack, NU Inj Tree, test Tree, Test Casing, suspended loads on winch lines, tie off when disassembling Rig Floor, Crush Points, be aware of hands when making up Bolts & Nuts, pressure,, slip trips & fall hazards.

Check Tbg & Csg Pressure. 0 PSI on Tbg & 0 PSI.

Nipple down BOP Stack & load on trailer.

NU Tree Assembly & torque up bolts.

RU Chart to Wellhead w/ 1 hr Chart.

Pressure up on 2 3/8" Fiber Line Tubing & test to 1000 psi to insure no leaks & held okay for 10 min.

Pressure up on 2 3/8" Tubing against Pump Out Plug w/ 1750 PSI Shear Value & blow @ 2200 pi & pumped Injection Rrate w/o communication.

RD Reverse Unit Equip., Empty 10# Brine Tanks.

Start RD of Pulling Unit Equipment. Waiting on Inspection by Key Mechanic & Welder.

Hot Work Permit Issued for welding on Pulling Unit & start Mechanical Repairs to Pulling Unit Equipment.

Debrief Meeting. Discussed issues during RD of Pulling Unit. Discussed moving Rig to yard to have some work done in the yard.

Travel Time for Rig Crew.to move pulling unit to the Yard for repairs.