KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

SEP 1 6 2010

Form must be Typed

RECEIVED ON

Geologist Report Received

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE WICHITA

| OPERATOR: License #4549 | API NO. 15- 189-22719-00-00 |
|--|--|
| Name:ANADARKO PETROLEUM CORPORATION | Spot Description: |
| Address 1:P.O. BOX 1330 | NW - NW - SE - SE Sec. 26 Twp. 32 S. R. 39 East X West |
| Address 2: | 1250 Feet from North / X South Line of Section |
| City <u>HOUSTON</u> State <u>TX</u> Zip: <u>77251</u> + <u>1330</u> | 1250 Feet from X East / West Line of Section |
| Contact Person: MELANIE WIGGINS | Footages Calculated from Nearest Outside Section Corner: |
| Phone (832) 636-1053 | □ NE □ NW □ SE □ SW |
| CONTRACTOR: License # 33784 | County Stevens |
| Name: Trinidad Drilling LP | Lease Name ASH A Well # 1HP |
| Wellsite Geologist: | Field Name Hugoton/Panoma |
| Purchaser: Anadarko Energy Services Company | Producing Formation Chase/Council Grove |
| Designate Type of Completion | Elevation: Ground 3218 Kelley Bushing |
| X New Well Re-Entry Workover | Total Depth Plug Back Total Depth |
| Oil SWD SIOW | Amount of Surface Pipe Set and Cemented at623 Feet |
| X Gas ENHR SIGW | Multiple Stage Cementing Collar Used? Yes X No |
| CM (Coal Bed Methane) Temp. Abd. | If yes, show depth set Feet |
| Dry Other (Core, WSW, Expl., Cathodic, etc.) | °If Alternate II completion, cement circulated from |
| If Workover/Reentry: Old Well Info as follows: | feet depth tow/sx cmt. |
| Well Name: | Drilling Fluid Management Plan (Data must be collected from the Reserve Pit) |
| Original Comp. Date Original Total Depth | Chloride content 3700 ppm Fluid volume 70 bbls |
| Deepening Re-perf Conv.to Enhr Conv.to SWD | Dewatering method used HAUL OFF |
| ——— Plug Back ———————————————————————————————————— | Location of fluid disposal if hauled offsite: |
| Commingled Docket No | |
| Dual Completion Docket No | Operator Name ANADARKO PETROLEUM CORPORATION |
| Other (SWD or Enhr?) Docket No | Lease Name KEEFER A 1 License No. 4549 |
| 05/13/2010 05/15/2010 06/03/2010 Spud Date or Date Reached TD Completion Date or | Quarter SW Sec. 13 Twp. 32 S R. 38 East X West |
| Spud Date or Date Reached TD Completion Date or Recompletion Date | County STEVENS Docket No. D17157 |
| on side two of this form will be held confidential for a period of 12 mon | n the Kansas Corporation Commission, 130 S. MarkeT - Room 2078, Wichita, r conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information this if requested in writing and submitted with the form (see rule 82-3-107 for cologist well report shall be attached with this form. ALL CEMENTING TICKETS P-111 form with all temporarily abandoned wells. |
| | the oil and gas industry have been fully complied with and the statements herein |
| Signature UN () NULL NORMAN | |
| Title REGULATORY ANALYST Date 9/1 | KCC Office Use ONLY |
| | Letter of Confidentiality Attached |
| 20 //) | If Denied, Yes Date: |
| | LIZABETH M. WINTON Wireline Log Received COMMISSION EXPIRES Geologist Report Received |

Date Commission Expires

| Operator Name ANADA | RKO PETROLE | M CORPO | RATION | Lease | Nam | e Ash A | | Well # | 1HP | , | | |
|--|---------------------------------------|-----------------------------|---|----------------|-----------------------------|---------------------------------------|-------------------------|-----------------|------------|--------------------------|--|--|
| Sec. <u>26</u> Twp. <u>32</u> | S.R. <u>39</u> | ☐ Eas | st 🗶 West | Count | у | Stevens | | •. | | | | |
| NSTRUCTIONS: Show in me tool open and closed, ecovery, and flow rates if ogs surveyed. Attach fina | , flowing and shu gas to surface d | it-in pressu uring test, | ires, whether si along with final | hut-in pressur | e rea | ched static lev | el, hydrostatic pre | essures, botto | m hole t | | | |
| Drill Stem Tests Taken (Attach Additional Sh | reets) | ☐ Ye | es 🗶 No | x | Log | | Formation (Top), | Depth and D | atums | Sample | | |
| Samples Sent to Geolog | ical Survey | X Ye | s 🗌 No | Nam | ne | | Тор | Da | itum | | | |
| Cores Taken | | ☐ Ye | s 🗓 No | | | | | | | | | |
| Electric Log Run (Submit Copy) | | X Ye | es 🗌 No | | | r Hills e Corral | 1414 1699 | | | | | |
| List All E.Logs Run: | | | | Chase | | | 2440 | | | | | |
| CEMENT BOND LOG NEUTRON LOG | | | | Counci | il G | rove | 2744 | | | | | |
| Purpose of String | Repor Size Hole Drilled | t all strings Size | NG RECORD s set-conductor c Casing (In O.D.) | (2X) ····· | rmedi | sed iate, production Setting Depth | n, etc. Type of Cement | # Sacks Used | | and Percent Additives | | |
| SURFACE | 12.25 | 8 5/8 | | 24 | | 623 | STANDARD | 450 | 2% 2% CC | | | |
| PRODUCTION | 7.875 | 5 1/2 | | 14 | 14 | | MIDCON50/50 | 480 | .5 HALAD | | | |
| | | | | | | | TOC=343 | | | | | |
| Purpose Perforate Protect Casing Plug Back TD Plug Off Zone | Depth Top Bottom | | ADDITIONAL C of Cement | #Sacks Us | | EZE RECORI | | ercent Additive | es | | | |
| Shots Per Foot | | | ORD - Bridge P f Each Interval | | | | | | | Donth I' | | |
| 3 | 2905-13; 28 | 92-96; 2 | 2878-81; 28 | 53-61; | -61; Frac w/95,088 gals 20# | | | | d 2 | 773-2913 | | |
| | 2831-37; 27 | 73–2777 | | | | 0.5% KCL | 12/20 sand | l l | | | | |
| 2 | 2676-90; 26 | 44-56; 2 | 2 <u>610-16; 25</u> | 94-2600; | | Frac w/1 | 27,386 gals 2 | 20# x-link | ed 2 | 470-2690 | | |
| | 2539-45; 24 | 70-76 | | | | 0.5% KCIL | w/300,000# : | 12/20 sand | ı | | | |
| TUBING RECORD | Size 2 3/8 | Set 291 | t At L8 | Packer At | | Liner Run | Yes X | No | | | | |
| Date of First, Resumed 06-03-2010 | | VD or Enh | r. Produc | cing Method | ХP | oumping G | as Lift | her (Explain) | | | | |
| Estimated Production Per 24 Hours | Oil 0 | Bbls. | Gas 240 | Mcf | Wate 0 | er Bbls. | Gas-Oil | Ratio | | Gravity | | |
| DISPOSITIO | N OF GAS: | | | METHOD OF | CON | /PLETION | · | Produc | tion Inter | val | | |
| ☐ Vented ☒ Sold | Used on L | .ease .[| Open Hole | | | lly Comp. 🔲 | | 2470-29 | 13 | | | |
| (If vented, subm | it ACO-18.) | [| Other (Spec | | ki/ % . | · · · · · · · · · · · · · · · · · · · | | | | | | |

PLAT AND CERTIFICATION OF ACREAGE ATTRIBUTABLE TO A GAS WELL'

Kansas Corporation Commission, Conservation Division Finney State Office Building, 130 South Market, Room 2078 Wichita, Kansas 67202

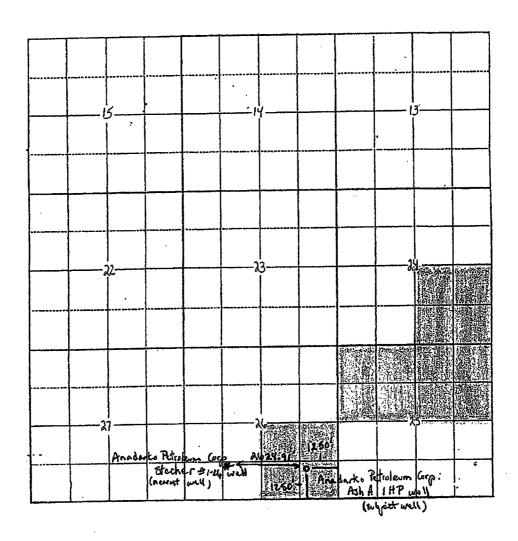
| API NUK | BER 15 | | | | የ የስቸ ም ፈግሲ ፕ | A UB ME | ELL: COUNTY _ | Stevens | |
|---------|--------------------------|--------------------|-------------|--|---------------------------------------|-------------|----------------------------|---|-------------------|
| LEASE _ | Ash A 1 | | roleum | Corporat | ion 1250 | feet i | from south no | orth line of west line of | |
| | MBER Hugoton | | | | 1250 | reec . | LEUN CHEST / | TOOL ZENO OF | |
| • | | | אדר ייט | WELL 640 | SECTION IS SECT | | | 32 (S) RG 3 | |
| | R/QTR OF AC | | | e Attached | IF SECT | ION IS | IRREGULAR, ER BOUNDARY. | LOCATE WELL (check line | FROM below) |
| (Show t | he location | on of the | well a | nd shade att | ributable | acreag | e for prorat | ed or spaced octage to the | wells). |
| (Snow t | u sonice s | upply we | ll). | TOUBL OF WILL | | | , | | |
| | | | • | | • • | | | REC | EIVED |
| | | • • • • • • • | | | • • • • | • | | SEP | 1 6 2010 |
| | | | | | · · · · · · · · · · · · · · · · · · · | • | | KCC \ | NICHITA |
| | | | • • • • • • | • | | • | | | |
| | • | • | • | • | • • | | EXAMPLE | | |
| | | • | • | • | · · | | | 1980 | |
| | | | • | • | | * | | | |
| | | | • | | • • • • • | • | | 3390' | |
| | | • | • | | | • | | | |
| ٠. | | | • | | • | | SEWARD C | :0. | |
| 7 | The undersi | gned her | eby cert | ifies as <u>at</u> | torney | | | (t: | tle) for |
| | Anadarko | Petro | leum C | orporatio | n | (Co.) |), a duly auth | orized agent, | that all |
| acreas | ge claimed ereby make | attribu applica | table to | o the well r r an allowal whichever is | named herei ole to be j | n is lasign | held by prod | and belief, uction from t ll upon the f | hat well |
| Subsc | ribed and i | sworn to | before : | me on this | All day | ot US | | 1 | 2 2010 |
| ну Со | mmission e | xpires _ | 10/29/ | | | | • | | 3 (12/94) |
| | | | M | ARILYN B. MORLAI NOTARY PUBLIC | N · | | | | |

7,3

Exhibit "C"

ATTACHMENT TO FORM CG-8 (12/94) ANADARKO PETROLEUM CORPORATION Ash A 1HP Well

Section 26, Township 32 South, Range 39 West Stevens County, Kansas



RECEIVED
SEP 1 6 2010
KCC WICHITA

Unit Acreage:

Southeast Quarter (SE/4) of Section 24, North Half (N/2) of Section 25, and the Southeast Quarter (SE/4) of Section 26, all in Township 32 South, Range 39 West of the Sixth P.M., Stevens County, Kansas, consisting of 640 acres, more or less

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety Sold To #: 300466 Ship To #: 2784082 Quote #: Sales Order #: 7366578 Customer: ANADARKO PETROLEUM CORP - EBUS Customer Rep: Well Name: ASH Well #: 1HP API/UWI #: Field: City (SAP): LIBERAL County/Parish: Seward State: Kansas Contractor: TRINIDAD Rig/Platform Name/Num: 208 Job Purpose: Cement Surface Casing Well Type: Development Well Job Type: Cement Surface Casing Sales Person: HESTON, MYRON Srvc Supervisor: DEETZ, DONALD MBU ID Emp #: 389855 Job Personnel **HES Emp Name** Exp Hrs Emp# **HES Emp Name** Exp Hrs Emp# **HES Emp Name** Exp Hrs Emp# AGUILERA, FABIAN 5.0 442123 DEETZ, DONALD E 5.0 389855 HAYES, CRAIG H 5.0 449385 LOPEZ, JUAN R 5.0 198514 Equipment **HES Unit #** Distance-1 way **HES Unit #** Distance-1 way HES Unit # Distance-1 way **HES Unit #** Distance-1 way 10240236 50 mile 10286731 50 mile 10744298C 50 mile 10924982 50 mile 10988832 50 mile 11019295 50 mile 11133699 50 mile Job Hours On Location Date Operating Date On Location Operating Date On Location Operating Hours Hours Hours Hours Hours Hours 5-13-10 5 3 TOTAL Total is the sum of each column separately Job **Job Times** Formation Name Date Time Time Zone Formation Depth (MD) Top Bottom Called Out 13 - May - 2010 14:00 CST Form Type BHST On Location 13 - May - 2010 18:00 CST Job depth MD Job Depth TVD 623 613. ft Job Started 13 - May - 2010 00:00 CST Water Depth Wk Ht Above Floor 3. ft Job Completed 13 - May - 2010 00:00 CST Perforation Depth (MD) From To Departed Loc 13 - May - 2010 00:00 CST Well Data Description New / Max Size ID Weight Thread Grade Top MD **Bottom** Top **Bottom** Used pressure in in lbm/ft ft MD TVD TVD psig ft ft Surface Hole 12.25 675630 Surface Casing Unknow 8.625 8.097 24 *•*27 Sales/Rental/3rd Party (HES) M Description Qty uom Qty Depth Supplier SHOE, GID, 8-5/8 8RD RECEIVED EΑ VLVASSY, INSR FLOAT, 8-5/8 8RD, 24 lbs/ft 1 EA FILLUP ASSY - 1.500 ID - 7 IN. - 8-5/8 SEP 1 6 2010 1 EA CENTRALIZER ASSY - API - 8-5/8 CSG X 3 FA BASKET - CEMENT - 8 5/8 CSG X 12 1/4 KCC WICHITA 1 FA PLUG,CMTG,TOP,8 5/8,HWE,7.20 MIN/8.09 MA 1 EA **Tools and Accessories** Type Size Qty Make Depth Type Size Qty Make Depth Type Size Qty Make Guide Shoe 8 5/8 613 Packer Top Plug 8 5/8 h Float Shoe Bridge Plug Cem basket 8 5/8 h Float Collar Retainer SSR plug set Insert Float 8 5/8 1 572 h Plug Container 8 5/8 1 'n Stage Tool Centralizers 8 5/8 3 h Miscellaneous Materials Gelling Agt Conc Surfactant Conc Acid Type Qty Conc

Summit Version: 7.20.130

Thursday, May 13, 2010 22:40:00

HALLIBURTON

Cementing Job Summary

| I reatr | ment Fld | | C | onc | Inhibito | r | | Conc | San | d Type | | Size | Qty | |
|------------|-----------------------|--------|-------------------|---------------------|-------------|---------------------------------------|-------------|-------------|------------------------------|-----------------|------------------------|-----------------|------------------|----|
| | | | | <u> </u> | | FI | uid Data | | | | | 1-1 | | |
| | tage/Plu | g #: 1 | | | | | | | | | | | | |
| Fluid # | Stage | | Fluid Name | | | | Qty | Qty | Mixing Density Ibm/gal | Yield ft3/sk | Mix Fluid Gal/sk | Rate bbl/min | Total Fluid C | |
| 1 | Water P Flush | re- | | | - | | 0.00 | bbl | 8.33 | .0 | .0 | 5.0 | | |
| 2 | Hallibur Light Sta | | HALLIE SBM (12 | BURTON LIG 2313) | ARD - | 230.0 | sacks | 12.4 | 2.09 | 11.42 | 5.0 | 11.4 | 42 | |
| | 2 % | | CALCIL | JM CHLORID | E - HI TEST | PELLE | T (100005 | 053) | -J | | 1 | L | | |
| | 0.5 lbm | | POLY-E | -FLAKE (101 | 216940) | · · · · · · · · · · · · · · · · · · · | | | * ** | | | | _ - _ | |
| | 11.423 G | al | | WATER | | | 220 | w | | | | | | |
| 3 | Standare Cement | 1 | CMT - S | STANDARD (684) | | 200.0 | sacks | 15.6 | 1.2 | 5.24 | 5.0 | 5.2 | 4 | |
| | 94 lbm | | CMT - S | TANDARD - | CLASS A R | EG OR | TYPE I BI | ULK (10 | 0003684) | | l | | | |
| | 2 % | | CALCIU | M CHLORID | E - HI TEST | PELLE | T (100005 | 053) | 00000047 | | *** ,,, | | | |
| - | 0.25 lbm | | POLY-E | -FLAKE (101 | 216940) | | 1,00000 | | | | | | | |
| | 5.238 Ga | I | FRESH | | | | | | | | | | | |
| | Displace | ment | | | | | 43.00 | bbl | 8.33 | .0 | .0 | 50 | | |
| Ca | culated | Values | | Pressu | res | T | 10.00 | - DD1 | <u> </u> | 5.0 | | | | |
| isplac | ement | 36 | Shui | In: Instant | | Lost R | eturne | 0 | Cement Si | olumes | 128 | Pad | | |
| op Of | Cement | surfac | | | | | t Returns | | Actual Dis | | | | | |
| rac Gr | adient | , | 15 M | lin | | Spacer | | | Load and E | | | Treatme | | |
| | | | | - | | | ates | | Load and L | DIEARUOY | Aiil | Total Jo | 1 00 | 65 |
| Circula | ating | 5 | | Mixing | 6 | | Displace | ement | 6 | | A | | | |
| Ceme | nt Left In | Pipe | Amount | 40 ft Rea | son Shoe | Joint | 2.00.00 | cincin | | | Avg. Jo | D | 6 | |
| rac Ri | ing #1@ | | D | Frac ring # 2 | | | Frac Ring | #3@ | ID | I E | rac Ring # | 148 | Tip. | |
| The | e Inform | ation | | Herein Is C | | Custom | er Represen | tative Sign | nature | 69 | // | | ID | |

RECEIVED SEP 1 6 2010 KCC WICHITA

RECEIVED SEP 1 6 2010

HALLIBURTON

KCC WICHITA

Cementing Job Log

The Road to Excellence Starts with Safety

| Sold To #: 300466 | Ship To #: 2 | 784082 | | Quote # | | arety | Sal | es Order #: 7366578 | |
|-----------------------------|---------------------|-----------|--|---------------------------------------|--------------|--|--------------|--|--|
| Customer: ANADARKO PET | ROLEUM COR | - EBUS | 3 | Custom | er Rep: | | - Jour | cs order #. 7500576 | |
| Well Name: ASH | | | #: 1HP | | | AF | PI/UWI # | • | |
| | ty (SAP): LIBEF | RAL | County/l | Parish: S | Seward | | | e: Kansas | |
| Legal Description: | | | | | | | 15 3.3.0 | - Narious | |
| Lat: | | | | Long: | | | | | |
| Contractor: TRINIDAD | Rig | /Platform | Name/N | Num: 208 | В | | | | |
| Job Purpose: Cement Surface | | | | | | Ticket | Amoun | ıt: | |
| Well Type: Development Wel | | Type: C | ement S | urface Ca | asing | | | | |
| Sales Person: HESTON, MY | RON Srve | Superv | isor: DE | ETZ, DC | NALD | MBU II | D Emp # | ¥: 389855 | |
| Activity Description | Date/Time | | Rate | t | lume obl | Pres | ssure sig | Comments | |
| Call Out | 0540000 | # | <u> </u> | Stage | Total | Tubing Casing | | g | |
| Juli Juli | 05/13/2010 14:00 | 1 | | ĺ | | | | | |
| Depart Yard Safety Meeting | 05/13/2010 16:45 | | | | | | | discuse routs and stops | |
| Arrive At Loc | 05/13/2010 | | | · · · · · · · · · · · · · · · · · · · | | | | | |
| | 18:00 | | | | | | | rig was on bottom | |
| Assessment Of Location | 05/13/2010 | | | | | | | circulating with drill pipe | |
| Safety Meeting | 18:05 | ł | | | | | | walk around location pouint out any hazards | |
| Pre-Rig Up Safety Meeting | 05/13/2010 | | | | | | J | watch for pinch | |
| D: III o | 18:10 | | | | | | | points,hammering and walking hazards | |
| Rig-Up Completed | 05/13/2010 18:40 | | | | | | | in an in a second of the secon | |
| Casing on Bottom | 05/13/2010 | | | | | | | | |
| a some on Bottom | 21:20 | | 1 | | | | | put on cement head | |
| Pre-Job Safety Meeting | 05/13/2010 | + | | | | \vdash | | circulated with rig | |
| | 21:30 | | | | | | | with all personal on | |
| Start Job | 05/13/2010 | | + | | | | - | location | |
| | 21:43 | | | - + | | | | - | |
| Pressure Test | 05/13/2010 21:44 | | | | | | | 2000 psi | |
| Pump Lead Cement | 05/13/2010 21:50 | | 6 | 86 | 7 | | 100.0 | 230 sks @ 12.4 | |
| Pump Tail Cement | 05/13/2010 22:03 | | 6 | 43 | 129 | | 75.0 | 200 sks @ 15.6 | |
| Drop Plug | 05/13/2010 22:12 | | | | | | | top plug only | |
| Pump Displacement | 05/13/2010 22:13 | | 6 | 36 | 165 | | 250.0 | fresh water | |
| Bump Plug | 05/13/2010 22:24 | | | | | | | bumped plug @ 250 took to 950 | |
| Check Floats | 05/13/2010 22:25 | | | | | | | ok | |
| End Job | 05/13/2010 22:26 | | | | | | | | |

Sold To #: 300466

Ship To #:2784082

Quote #:

Sales Order #:

7366578

SUMMIT Version:

7.20.130

Thursday, May 13, 2010 10:40:00

HALLIBURTON

Cementing Job Log

| Date/Time | Cht | Rate bbl/ min | Volume bbl | | ſ | _ | Comments | |
|---------------------|---|--|---|---|-----------------|-----------|--|--|
| | # | | Stage Total | | Tubing Casing | | | |
| 05/13/2010 22:30 | | | | | | | all hes employees | |
| 05/13/2010 22·40 | | | | | | | present | |
| 05/13/2010 23:15 | | | | | | | all hse employees | |
| 05/13/2010 23:30 | | | | | | | present thanks for calling halliburton eric & crev | |
| | 05/13/2010 22:30 05/13/2010 22:40 05/13/2010 23:15 05/13/2010 | # 05/13/2010 22:30 05/13/2010 22:40 05/13/2010 23:15 05/13/2010 | Date/Time Cht bbl/ min # 05/13/2010 22:30 05/13/2010 22:40 05/13/2010 23:15 05/13/2010 | Date/Time Cht bbl/ min # Stage 05/13/2010 22:30 05/13/2010 22:40 05/13/2010 23:15 05/13/2010 | Date/Time | Date/Time | Date/Time Cht bbl/ min Stage Total Tubing Casing | |

RECEIVED SEP 1 6 2010 KCC WICHITA

Sold To #: 300466

Ship To #:2784082

Quote #:

Sales Order #:

7366578

SUMMIT Version:

7.20.130

Thursday, May 13, 2010 10:40:00

| O HALLII | BURTON | | JOB SUM | | RY | | | 737 | 71810 | | TICKET DATE | 5/15/201 | |
|--------------------------------|----------------------------------|----------------------|------------------------------------|--------------|---|---|------------------------|-------------------------|----------------|-----------------|----------------------------|-----------------|---------------------------------------|
| _{Fвм} NorthAmeric | ca | | NWA / COUNTRY MidCon | 11712 | 11 1 | | | BDA / STATE | | | COUNTY | 3/ 13/20 1 | .0 |
| MBU ID / EMPL # 106127 | IBU ID / EMPL # | | | | | | | Kansas PSL DEPARTMEN | | | Stevens | | |
| LOCATION | | | COMPANY | | | | | Cementi CUSTOMER REP | | • | | | |
| Pampa, TX TICKET AMOUNT | | | Anadarko Pet | | | <u>oratio</u> | <u>n</u> | Jr. Cook | | | | | |
| WELL LOCATION | | | Gas - Develop | <u>oment</u> | | | | 15-189 | 9-22719 | | | AFE#: 20 | 038435 |
| Hugoton, KS | 3 | | | Cem | nenting | | | JOB PURPOSE C J035 | | nt P | Production | | |
| Ash | | #1H | SEC / TWP / RNG Sec 26-32S-39 | 9W | | | | | | 11. | 10000 | Judina | · · · · · · · · · · · · · · · · · · · |
| | MP#/(EXPOSURE HOUR | RS) HRS | | | HRS | <u></u> | | | | HRS | | | |
| | turo - 106127 | 6 | | | | T | | | 1 | TING | | | H |
| Adolfo Mata | | 6 | | | | | | | | | | | $\overline{}$ |
| | orres - 344233 Ianueva - 3419 | | | | | ┦— | | | | | | | |
| H.E.S. UNIT #S / (R / T | | R/TMILES | | | | | | | i | | ١ | | |
| The or other works. | MILES | i i | | | R/T MILES | <u>s</u> | | | R/TA | AILES | | | R/TMI |
| | | | | | | + | | | -+- | - | | | |
| | | | | | | | | | | 寸 | | | _ |
| | | | | | | | | | l | | | | |
| Form. Name | | Тур | | | • | | | | | | | | |
| Form, Thickner Packer Type | ess | From Set | To | Dat | | alled C | Out 5/2010 | On Location | on . | Job | Started | | ompleted |
| Bottom Hole 1 | Temp. | Pre | essure | | | <i>3)</i> 13 | /2010 | 5/15/20 | 1 | | 5/15/2010 | 5/ | 15/2010 |
| Misc. Data | Tools and | Tota | al Depth pries | Tim | Agree 100 100 100 100 100 100 100 100 100 1 | | 100 | 0700 | | | 1103 | | 1215 |
| Type a | <u>and Size</u> | Qty | Make | | | *************************************** | New/Used | Well □ Weight | ata Size | | From T | То | Max. Allov |
| Float Collar Float Shoe | LD Baffle | 7-1-1 | HES | | sing | — | Used | 24#/ft | 8.625' | | GL | 623' | IVIGA, , |
| Guide Shoe | Req 5.5" | | HES | Line | | | New | 14#/ft-J55 | 5.5" | + | GL | 3054' | |
| Centralizers Bottom Plug | Bow 5.5" | | HES | Tbo | g. / D.P. | | | | | # | | | <u> </u> |
| Top Plug | LD 5.5" | | HES | | g. / D.P. en Hole | | | <u> </u> | 7.875" | $\dot{+}$ | | 3060' | Shots/Ft |
| Head Packer | QL 5.5" | | HES | Per | rforation | ns | | | | \Rightarrow | | 3000 | Shotan |
| Other | Thread Lock | 1 lb | HES | | rforation rforation | | | | | + | | | I |
| | | rials | | Hou | urs On L | | ion | Onerating | Hours | 7.0 | Descript | lion of Jol | <u> </u> |
| Treat. Fluid Disp. Fluid | 2% KCL | _ Density Density | Lb/Gal | | Date 5-May | | ours | Date | Hours | | | William Indiana | |
| Prop. Type | Siz | ze | Lb | |)-IVIQy | | <u>/</u> | 15-May | 2.5 | \dashv | | | |
| Prop. Type Acid Type | Siz | | Lb | | | | | | | \exists | | | |
| Acid Type | Ga | al | % | | | | | | | \dashv | | | |
| Surfactant NE Agent | Ga Ga | | In In | | | | | | | \exists | l | | |
| Fluid Loss | Ga | al/Lb | In | | | | | <u> </u> | | \dashv | | | |
| Gelling Agent Fric. Red. | | al/Lb al/Lb | In In | | | | | | | \exists | | | |
| 3reaker | Ga | al/Lb | In | Tot | al | | 7 | Total | 2.5 | \dashv | | | |
| Blocking Agen Perfpac Balls | ıt | Gal/ Qty. | | | | | | | | | | | |
| Other BE-7 (B | Biocide) in displ | acement | | Ord | dered | | L | Hydraulic Ayail. | | ~~~~ | Used | | |
| Other Other | | | | | ating | | 5 | Average F | | 3PN | M. | | |
| Other | | | | | | | | Disp. Cement | 5 Left in P | ipe | <u>Overall</u> | | 5 |
| Other Circula | ited 48 bbl (93 s | acks) to p | it | Fee | <u>:t</u> | | 42.5' | Reason | | | Shoe J | oint | |
| | | | | | Cemer | nt Dat | a . | | | 7.15. <u>22</u> | | | Sale |
| Stage Sacks | Cement | Bulk/Sk | 10 bbl Water Spa | | | | | Additives | | | | Yield | Lbs/Gal |
| 2 200 | MIDCON-S | Bulk | 0.25 #/sk POLY-E | E-Flake | | | | | | | | 2.89 | 8.33 11.4 |
| 3 280 | 50/50 POZ-S | Bulk | 10 #/sk KOL-Seal 2% KCL Water w | 1, 0.5% | HALAD- | 322, 0 | .25 #/sk P | OLY-E-Flake |) | | - | 1.63 | 13.3 |
| | | | Z/O NOL VIGILO: VI | / BL · · | Siociae | | | | | - | ` | | 8.4 |
| | | | | | | | | *** | | | | | · |
| | \$ 1.00 miles | | | | Summe | arv | | | | 35 | | | |
| Sirculating Breakdown | | Disp | lacement imum | | | Preflu | | Gal - BBl _ | 10.0 |) | Type: | Wa | ater |
| verage | | Frac | . Gradient | | | Treati | ment: | Gal - BBI | | _ | Pad:Bbl - Disp:Bbl- | -Gal | 73 bbl |
| Shut In: Instant | t | 5 Mir | n15 M | in | (| Ceme | ent Slurry (Volume | Gal - BBI - | 102. | 9 bb | ol + 81.2 bbl = 257.1 b | = 184.1 bb | l Total |
| | | | | חרכ | | | Volume . | _ יייייי בייייי | | | 201.11 | 101 | |
| | | | | -XFL | FIVE | D | | | | | | | |

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