Form 3160-5
(August 2007)

OCD Hobbs

HOBBS OCD

APR 11 2013

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

5. Lease Serial No.
NMNM27506

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
PORTER BROWN 1H

2. Name of Operator
CHEVRON U.S.A. INC.
Contact: DENISE PINKERTON
E-Mail: leakejd@chevron.com

9. API Well No.
30-025-40802

3a. Address
15 SMITH ROAD
MIDLAND, TX 79705

3b. Phone No. (include area code)
Ph: 432-687-7375

10. Field and Pool, or Exploratory
SALADO DRAW; BONE SPRING

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 19 T26S R33E Mer NMP 340FSL 340FEL

11. County or Parish, and State
LEA COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Please find attached, the daily activities for completion of this well.
Reports are from 01/11/2013 through 03/19/2013

THE FINAL REPORTS FOR PRODUCTION WILL BE FILED AFTER THE PUMP/RODS HAVE BEEN INSTALLED.

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #202135 verified by the BLM Well Information System
For CHEVRON U.S.A. INC., sent to the Hobbs

Name *(Printed/Typed)* DENISE PINKERTON — Title REGULATORY SPECIALIST

Signature (Electronic Submission) — Date 03/21/2013

ACCEPTED FOR RECORD

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By — Title — Date

APR 7 2013

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. — Office KZ

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

APR 17 2013

Report Start Date: 1/11/2013

Com

HOLD SAFETY MTG. DISCUSSED TIF, SWA, CONTINGENCY PLANS, PINCH POINTS COMMUNICATION L CATION HAZARDS, CRANE OPERATION TAG LINES, SUSPENDED LOADS AND JOB PROCEDURES, JSAS.

NO PRESSURE ON WELL. ND ABANDONMENT CAP. NU SECONDARY 1-13/16" 10K CSG VALVES ON EACH SIDE OF TBG HEAD. NU 7-1/16" 10K BOTTOM FRAC VALVE. REMOVE BPV NU TOP 7-1/16" 10K FRAC VALVE AND FLOW CROSS W NIGHTCAP.

RU GREENE'S ENERGY TEST PUMP. LOAD SURFACE CSG WITH FRESH WATER. ATTEMPT TO PRESSURE UP ON INTERMEDIATE TO 800 PSI STARTED PUMPING IN AT 350 PSI. BLED DOWN TO 250 PSI IN 5 MINUTES. CLOSE BOTTOM FRAC VALVE. TEST TOP SECTION FRAC STACK TO 8000 PSI. CONSULT WITH HOUSTON DECIDE TO TEST CSG TO 7500 PSI. TEST CSG TO 7500 PSI FOR 15 MIN. RD GREENE'S ENERGY. SWFN

Com

Have safety meeting with Petro,Greens Halliburt n PWR,and 3Rivers Talked al t TIF SWA SA, Emergency Plans, Communication, Pinch Point Pressure Use of spotter, and E-Line operations

Test Lubricator to 3000 psi. Grease fitting on BOP's leaking an Pack off leak g Attempt to t hten up grease fitting and still leaking Have to wait on n BOP's and pump for pack off to arrive from hobbs

Waiting on New BOP's and Pump for pack off to arrive.

Install new W/L Bop's and test lubricator to 3000 psi.

GIH with junk basket and 4.50" gauge ring tagging up 7' below well head try and work through unable to work through tight spot. P/U 3 3/8" GR tool and r through tight spot to 60' pooh. P/U 4.35" GR and junk basket tag up in the same spot. Attempt to work through multiple times unable lo get past tight spot Appears to be tagging up in pup Jt below 5 1/2' Csg hanger Lay down tools and 'c or and SWFN

Report Start Date: 1/13/2013

Com

Have safety meeting with Petro,Greens,Halliburton,PWR,and 3Rivers Ta ked al l ,SWA,JSA, Emergency Plans, Communication Pinch Points Pressure Use of spotter, and E-Line operations and Working in cold weather

M/U W/L BOP'S and Lubricator.

P/U 3.97" Gauge ring and GIH run to 60' get past tight spot Lay down GR and P U 4 05 Blank gun barrel get past li h spot D and P/U 4 35 Gauge ring GIH and tag up in tight spot 6' below WH

P/U 3.97" Guage ring and junk basket Test Lubricator to 3K GIH no prob ems Set down at 9405 ~72 deg POOH ; nd lay down GR/Junk Basket

P/U Halliburtn CCL/GR/RCBL Logging tool and gih run to 5800' and corrolate tools in free p pe RIH to 9050' and log up to 7400 ith 0psi. Drop down to 9050' pressure up to 2500 psi and log 30' min to 1000'. Find short Jt at 8370' and Top of CEMENT at 6294 Corrolate Bac o SLB DS GR Dated 12/17/12

Bleed off Pressure. Lay down RCBL tools and R/D E-Line unit

Report Start Date: 1/14/2013

R/U Halliburton OH Logging truck and all associated equipment. M/U CCL/GR/and 6 Arm Caliper tool. M/U to well and test lubricator to 1000 psi

RIH with CCL/GR/and 6 arm caliper. 3.625" OD Make 3 Passes through restriction 1st pass
7 ¼'-4.58" ID
7 ¾'-4.68"ID
2nd pass
7 ¼'-4.62"ID
3rd pass
7 ¼'-4.62"ID
6 ¾'-4.59" ID
6 ½'-4.63"ID
2 ¼'-5.18"ID (believe to be top of csg hanger)

RIH with CCL/GR/Caliper log to 8818' log out of hole at 30'min See no restriction in well bo e

Build Lined Berm for Acid and flow back tanks

Com

Basic Setting Flow Back and Acid Tanks RWI Building Berm for Acid Tanks an l in Flow back Berm Dimond D Rigg'ng up they did not bring correct X-Over to well Head have to Wait 4Hrs for X Over. Hobbs anchor setting rig anch . il states running flow back lines and manifo d.

Make decision to Clean off impression block and make second run Conlunue Rigg ng up FLow back Lines

Com

M/U Lubricator and GIH w th same BHA. 4.48" OD Impression block. Tag up at 6' with impression block POOH and lay down tools Inspect Impression block have concentric r'ng around one side of impression block looks like over torqued pin.

Report Start Date: 1 16 2013

Com

Have safety meet ng with Petro,Halliburton Target,3 Rivers, PWR, & Greens. Talked about TIF, SWA, JSA, Tenet of the day Weather, Pinch Points, Pressure Over head lifts Using flagg r and spotter and emergancy plans.

Lay down Target Duck Ponds. Spot and R/U Halliburton 2" Coil Unit, 200T PWR Crane and all associated equipment.

Have safety meet ng with halliburton,greens,pwr,oilstates,and baker before RIH.

RIH with baker BHA tag t ght spot at 6' below well head. Bring pumps up to 1BPM and Tag tight spot. Put 300# down and mill through tight spot in 10 Min Pass throught spot 3 times. Shut pumps down and pass through spot. Run to 60' see no obstruction.

Com

RIH with Baker BHA Rolling pumps. Get to 12500' and bring rate up to 2.5 BPM. Take weight at 13150 drill through cement stingers fro 3 0 to 13380' Tag up on float collar at 13381' p/u 30' and go back down tag FC at 13381' confirm depth P/U 10 nd start pumping acid

Pump 24BBLS (1000 Gal) of 7.5% NeFe acid circulater around bit 2BPM pump 10 BBL gel sweep and start disp acing hole with fresh ' r n clay web .5Gal/1000/Gal. Get sweep out of coil and start pooh.

Com

GIH with 4 50' Gauge Ring Junk Basket and CCL Tag up at 5150' pul up and start to pu l wt Pull multiple times and get free POOH ay d wn and inspect ga ige ring See small scrapes on one side and junk basket is tore up from pul ng

P/U CCL/Junk Basket and 4 375' Gauge R ng RIH see no indicat on of obstruction RIH to 917 ' at take wt due to deviation POOH lay down tools Secure well for Night

om

Com

Lay down and rig down Halliburton CAST-M tool assembly.

P/U Well-Tec Tractor, CCL,GR,RCBL tools Calibrate tools on surface.M/U to well test lubricator 250/3000 psi. Open well and GIH.

RIH with E-Line Tractor,CCL/GR/RCBL 200 fpm in vertical. Take wt at 9238' to deviation. Start up tractor and tractor down hole 60 fpm to 13281 .

Pressure up on Csg to 2500 psi start logging lateral out the hole 60' per min to 6132' find top of cement at 6294' find short jt at 8370'. Cement in lateral sect on looks good.(Correlate back to GR on Chevron composit log dated 1-17-13. Tie in at 12450'.)

Lay down RCBL tools and tractor. Test tractor on surface. M/U, CCL/Tractor and (3-1/8 Max Force Charges, 6SPF, 60° Phasing Total 8 Shots) Gun M U lubricator and test 250/3500psi. Start in Hole

RIH with CCL/Well TecTractor and (3-1/8 Max Force Hollow Carrier, 6SPF, 60° Phasing Total 8 Shots) Gun. Run 450' in vertical get to 9250' ft and set down to deviation let tractor take over RIH 55' Min to 13284'. P/U to 13224' and perforate. Pooh with tool string.

Lay down E-Line tool string and lubricator R/D E-Line unit and all associated equipment.

Com

R/U Halliburton Acid Pump and data van to pump DFIT. Install Spyder Gauges on each side of CSG valve.

Rig down pump, Lines and Data van Halliburton checked Spyder gauges to confirm working properly. Wrap WH with insulating blanket to prevent from freezing Leave well shut in for DFIT test Monitor g pressure from Spyder gauges every second

Com

Report Start Date: 1/23/2013

Com

Com

Com

Report Start Date: 1/26/2013

Report Start Date: 1/31/2013

Shut in and secure well Rig down pump truck. Download SPDR gauges.

Report Start Date: 2/4/2013

Com

Com

Carry Cost

Report Start Date: 2/10/2013

Carry cost

Remove spyder guages from casing vlave

Spot fresh water tanks for frac job

Report Start Date: 2/12/2013

Carrying Cost

Report Start Date: 2 14 2013

Com

PJSM with Hall burton cement crew. Discussed TIF and Tenets Discussed MIRU procedure

MIRU Halliburton Cement Eq ipment

PSI Tested surface t eating lines to 3,000 psi Set kickouts @ 1 500 psi.

Established injection rate of 5 bpm @ 315 ţ si Mix and pump 710 sks ˜c c m ˜745 bb s) @ 12.7#/gal with a 1.94 cuft/sk yield. Displaced with 185 bbls fresh water. psi dropped to 50 ps . Open well up Flowed back six bb s. Re n' nd shut we l in with 50 psi..

Continue to prep site.

Safety meet ng Reviewed JSA and discussed tenets Disc ıssed job plan

PWR delivered 200 t n crane to location Unload counter weights and matt ng b ards SDFN

Com

PJSM Reviewed JSA's and discussed job plan with Halliburton Wireline crew a d Greene's NU crew

MIRU Halliburton WLU. Rehead Wireline

PSI WL lubricator to 3000 psi. Good test Equalize we lhead to 1 000 ps

RIH with CBL tool. Log from 8,850' to 3 850 Showed top of cement @ 4 070' POOH wi C L tool

Report Start Date: 2/16/2013

Report Start Date: 2/17/2013

Wait on CTU to arrive on location

Spot CTU and PWR crane on location SDFN

MU Coil Connector. Pull Test Connector to 20K. Good Test. PSI coneection to 3K Good test MU xtreme motor 4 5' string mill a d 4 5 m Function test motor. Good Test. Flange up BOP and Lubricator to Wellhead.

PSI BOP and lubricator to 3,000 psi Good Test.

SICP 1,050 psi. OWU and RIH with BHA Tagged @ 4,368'. 20 minutes to mill thru Continue in hole to 8 600 Pump 10 bbl sweep Disp a e with 45 bb

POOH with BHA , Shut well in , Secured well , SICP 40 psi.

Report Start Date: 2/19/2013

Com

PJSM with Halliburton , Baker , 3 Rivers PWR , Petro Safety , and Chevron Reps. , Discussed operational hazards for day

Com

RIH Spot acid across perfs , Pulled up hole to 13,050' , acidized perfs w/ 2000 gals 15% FE HcL @ 2 bpm , pres broke over @ 2600 psi , FTP 2200 PSI Circ 1000 gals acid to surface , close backside back in , pumped additional 20 bbl. in perfs.

Report Start Date: 2/20/2013

Com

PJSM with Halliburton , PWR , Petro Safety , 3 Rivers , and Chevron Reps, Discussed Operational Hazards of Rigging Down

RDMO Halliburton 2" CTU and Associated Equipment . Haul fluid off Flowback tanks.

Report Start Date: 2/27/2013

Com

MIRU PWR crane and grease injection equipment. MIRU Isolation tool and goat head. MIRU Halliburton sand equipment NU Isolation tool and frac head Loaded sand.

Report Start Date: 2/28/2013

Safety meet ng, Rev'ewed JSA's Dis ussed job plan

Safety meeting Rev ewed JSA's Discussed job plan a d assignments

Report Start Date. 3/1/2013

Com

Wait on 15% E/FE HCL to be delivered to location.

PJSM Reviewed JSA's. Discussed job plan .

Prime up pumps. Test lines to 9 000 psi Repaired several leaks. Set pop-off to 8,000 psi. Achieved good test PSI up annulus to 1 000 psi

RU Halliburton Wireline , RIH w/ Baker CFP & (5) 3 1/8 guns , Set plug @ 13 090 Pressure tested plug to 4000 psi , Good Test Perf Stage 2 (12,839' - 13,071") 5 clusters 6 spf 60 deg phasing 40 holes , POOH

Upper master valve on Oil States Isolation tool not holding psi ND frac lines ND Frac head and Upper Master Valve NU new Master Valve and frac head NU frac lines.

Com

SICP= 1160 psi. Prime up , Pressure Test , Good Test , Pumped 2000 gals 15% HeFe HcL Worked rate up to 80 bpm @ 5850 psi Frac Stage 2 , Flushed to top Perf,

Max rate	80.8	bpm
Avg rate	80.3	bpm
Max pressure	6811	psi
Avg pressure	5686	psi
Max prop conc	2.15	ppg
Prop Pumped	251940	lb
100 Mesh	47900	lb
White 40/70	204040	lb
Gel Pumped	188	lb
Treated Water	0	gal
AquaStimUR	314356	gal
Water Fr GR(15)	2134	gal
7.5% HEFE	1500	gal , 2000 gals 15 HeFe
ISIP	1922	psi
5 min	1611	psi
10 min	1544	psi
15 min	1509	psi
Frac Gradient	0	psi/ft
Breakdown	6914	psi
Load to Recover	319990	gal

RU Halliburton Wireline , RIH w/ Baker CFP & (5) 3 1 8" Perf Guns

Continue RIH w/ Baker CFP & (5) 3 1/8" Guns , Set plug @ 12 810 , Pressure Tested Plug to 4000 psi Good Test Perf Stage 3 (12 549' 12,781") (5) clusters (6) spf (60) deg phasing (40) holes POOH

SICP= 1260 psi. Prime up , Pressure Test Good Test Pumped 2486 gals 15 & 1500 gals 7 / % HeFe HcL Worked rate up to 80 bpm @ 6300 psi, Frac Stage 3 , Flushed to top Perf,

Max rate	81	bpm
Avg rate	80.4	bpm
Max pressure	6814	psi
Avg pressure	5782	psi
Max prop conc	2.2	ppg
Prop Pumped	253400	lb
100 Mesh	57047	lb
White 40/70	196353	lb
Gel Pumped	202	lb
Treated Water	0	gal
AquaStimUR	320069	gal
Water Fr GR(15)	2130	gal
7.5% HeFe	1500	gal 2,486 gals 15 HeFe
ISIP	1918	psi
5 min	1681	psi
10 min	0	psi
15 min	0	psi
Breakdown	6914	psi
Load to Recover	326185	gal

PJSM. Reviewed JSA's. Discussed job plans with all service companies TIF SWA Job Hazards

Com

SICP= 1,154 psi. Prime up , Pressure Test , Good Test , Pumped 0 gals 15% & 3000 gals 7 1/2% HeFe HcL , Worked rate up to 80 bpm @ 6500 psi Frac Stage 4 , Flushed to top Perf

Max rate	80.8	bpm	
Avg rate		80	bpm
Max pressure	6821	psi	
Avg pressure	5801	psi	
Max prop conc	2.35	ppg	
Prop Pumped	239315	lb	
100 Mesh	48804	lb	
White 40/70	190511	lb	
Gel Pumped	202	lb	
Treated Water	0	gal	
AquaStimUR	238663	gal	
Water Fr GR(15)		32732	gal
7.5% HeFe	3000	gal	0 gals 15 HeFe
ISIP	2137	psi	
5 min	1733	psi	
10 min	0	psi	
15 min	0	psi	
Breakdown	4235	psi	
Load to Recover	266023	gal	

SICP= 1,344 psi. Prime up , Pressure Test Good Test Pumped 0 gals 15 & 3000 gals 7 1/2% HeFe HcL , Worked rate up to 80 bpm @ 6406 psi Frac Stage 5 , Flushed to top Perf,

Max rate	80.49	bpm	
Avg rate		79.94	bpm
Max pressure	6671	psi	
Avg pressure	5672	psi	
Max prop conc	2.418	ppg	
Prop Pumped	245582	lb	
100 Mesh	46373	lb	
White 40/70	199209	lb	
Gel Pumped	486	lb	
Treated Water	0	gal	
AquaStimUR	234303	gal	
Water Fr GR(15)		20575	gal
7.5% HeFe	3000	gal	0 gals 15% HeFe
ISIP	2252	psi	
5 min	1813	psi	
10 min	0	psi	
15 min	0	psi	
Breakdown	6625	psi	
Load to Recover	257878	gal	

Com

SICP= 1,400 psi. Prime up , Pressure Test , Good Test , Pumped 3000 gals 7 1/2% HeFe HcL , Worked rate up to 80 bpm @ 5500 psi, Frac Stage 6 , Flushed to top Perf.

Max rate	80 49	bpm	
Avg rate		80 24	bpm
Max pressure	6833	psi	
Avg pressure	5640	psi	
Max prop conc	2.41	ppg	
Prop Pumped	250406	lb	
100 Mesh	46201	lb	
White 40/70	204205	lb	
Gel Pumped	690	lb	
Treated Water	0	gal	
AquaStimUR	209363	gal	
Water Fr GR(15)		17360	gal
7.5% HeFe	3000	gal	
ISIP	2037	psi	
5 min	1625	psi	
10 min	0	psi	
15 min	0	psi	
Breakdown	6571	psi	
Load to Recover	229723	gal	

RIH w/ Baker CFP & (5) 3 1/8" Guns Set plug @ 11 653' Pressure Tested Plug to 4000 ps , Good Test , Perf Stage: 7 (11,389' - 11,621') (5) clusters (6) spf (60) deg phasing (40) holes POOH

Com

SICP= 1,330 psi Prime up , Pressure Test Good Test , Pumped 3000 gals 7 1/ % HeFe HcL Worked rate up to 80 bpm.@ 5925 psi Frac Stage 7 , Flushed to Top Perf.

Max rate	80 7	bpm	
Avg rate		80 3	bpm
Max pressure	6529	psi	
Avg pressure	5480	psi	
Max prop conc	2 1	ppg	
Prop Pumped	249633	lb	
100 Mesh	48250	lb	
White 40/70	201348	lb	
Gel Pumped	679	lb	
Treated Water	0	gal	
AquaStimUR	245242	gal	
Water Fr GR(15)		21107	gal
7.5% HeFe	3000	gal	
ISIP	1849	psi	
5 min	1658	psi	
10 min	0	psi	
15 min	0	psi	
Breakdown	5035	psi	
Load to Recover	269349	gal	

RIH w/ Baker CFP & (5) 3 1/8' Guns Set plug @ 11,360' , Pressure Tested Plug to 4000 psi Good Test Perf Stage 8 (11 099' 11 331) (5) clusters (6) spf (60) deg phasing (40) holes POOH

Com

SICP= 1,350 ps Prime up Pressure Test , Good Test , Pumped 3000 gals 7 1/2% HeFe HcL , Worked rate up to 80 bpm @ 6430 psi Frac Stage 8 Flushed to Top Perf.

Max rate	80 7	bpm
Avg rate	80 3	bpm
Max pressure	6793	psi
Avg pressure	5202	psi
Max prop conc	2 1	ppg
Prop Pumped	255097	b
100 Mesh	50679	b
White 40/70	204418	lb
Gel Pumped	703	lb
Treated Water	0	gal
AquaStimUR	244298	gal
Water Fr GR(15)	2074	ga
7.5% HeFe	3000	gal
ISIP	2061	ps
5 min	1698	psi
10 min	0	psi
15 min	0	psi
Breakdown	5800	psi
Load to Recover	268330	gal

RIH w/ Baker CFP & (5) 3 1 8" Guns , Set plug @ 10 780' , Pressure Tested Plug to 4000 psi , Good Test , Perf Stage 10 (10 519 10 751) (5) clusters (6) spf (60) deg phasing (40) ho es , POOH

PJSM. Reviewed JSA's Discussed job plans with all service companies , TIF SWA , Job Hazards

Com

SICP 1,500 psi. , Prime up , Pressure Test , Good Test , Pumped 3000 gals 7 1/2% HeFe HcL , Worked rate up to 80 bpm @ 5590 psi Frac Stage 10 , Flushed to Top Perf.

Max rate	81.8	bpm	
Avg rate		80 6	bpm
Max pressure	6441	psi	
Avg pressure	5016	psi	
Max prop conc	2.26	ppg	
Prop Pumped	268637	lb	
100 Mesh	47920	lb	
White 40/70	220717	lb	
Gel Pumped	780	lb	
Treated Water	0	gal	
AquaStimUR	220555	gal	
Water Fr GR(15)		32744	gal
7.5% HeFe	3866	gal	
ISIP	2001	psi	
5 min	1596	psi	
10 min	0	psi	
15 min	0	psi	
Breakdown	6441	psi	
Load to Recover	257165	gal	

Report Start Date: 3/4/2013

Com

Continue POOH w/ Wireline , Setting tool mis-fired on plug. Changed out Setting tool

RIH w/ Baker CFP & (5) 3 1/8" Guns , Set plug @ 10,490' , Pressure Tested Plug to 4000 psi , Good Test , Perf Stage: 11 (10,229' -10,461') (5) clusters (6) spf (60) deg phasing (40) holes , POOH , Pump spot acid away.

Waiting on water transport into reserve pit for stimulation of stage 11

SICP 1,095 psi. , Prime up , Pressure Test , Good Test , Pumped 4,500 gals 7 1/2% HeFe HcL , Worked rate up to 80 bpm @ 4,212 psi, Frac Stage 11 Flushed to Top Perf.

Max rate	81.8	bpm	
Avg rate		79.1	bpm
Max pressure	6284	psi	
Avg pressure	1490	psi	
Max prop conc	2.3	ppg	
Prop Pumped	247362	lb	
100 Mesh	36459	lb	
White 40/70	210903	lb	
Gel Pumped	806	lb	
Treated Water	0	gal	
AquaStimUR	247848	gal	
Water Fr GR(15)		20769	gal
7.5% HeFe	4500	gal	
ISIP	1756	psi	
5 min	1490	psi	
10 min	0	psi	
15 min	0	psi	
Breakdown	N/A	psi	
Load to Recover	273117	gal	

Waiting on water transport into reserve pit for remaining job.

Report Start Date: 3/5/2013

Com

Waiting on water transport into reserve pit for remaining job.

SICP 1,329 psi. , Prime up , Pressure Test , Good Test , Pumped 4,500 gals 7 1/2% HeFe HcL , Worked rate up to 80 bpm @ 5050 psi Frac Stage 12 Flushed to Top Perf.

Max rate	81.2	bpm	
Avg rate		80.7	bpm
Max pressure	6488	psi	
Avg pressure	5050	psi	
Max prop conc	2.36	ppg	
Prop Pumped	256573	lb	
100 Mesh	48343	lb	
White 40/70	208230	lb	
Gel Pumped	434	lb	
Treated Water	0	gal	
AquaStimUR	44969	gal	
Water Fr GR(15)		18189	gal
7.5% HeFe	3000	gal	
ISIP	2360	psi	
5 min	1560	psi	
10 min	0	psi	
15 min	0	psi	
Breakdown	N/A	psi	
Load to Recover	242000	gal	

RIH w/ Baker CFP & (5) 3 1/8" Guns. Start taking wt at 4020' pull up and bring pumps up to 3Bpm R H get to 4200 and start tak ng wt p/u and pull free RIH to 4300' and take wt. Attempt to pooh with plug. Unabe to go up or down Have to set p ug at 4300 Pooh and lay down guns and sett ng t ol

Report Start Date: 3/6/2013

Move in and spot coil tubing equiptment

Rig up coil tubing unitt.

Have to shut down to repair CT. Seal on 90 going to swivel pa king failed.

With seal repaired start back in hole circulating 3 bpm spott'ng sweep p'll Go in hole to 9975' p e ou' with Clay web treated water at .5 gal/1000 gal. and criculate any fill encountered while h ding 1100 psi on casing

Report Start Date: 3/7/2013

Discussed coil tubing operation.Discussed JSA TIF Pinch point hazzards, Tenent # 7 and S WA ommunication over head lifts emergency plan , heavy lifts

Upon inspection noticed turbo charger was out.Have to wa't on H lliburton tractor for Coil Tubing

PJSM Tail gate meeting to discuss removing Baker drill out assembly and replacing it w th Bal e

Make up Baker Pkr. plug assy including coil connector BPV , U iversal disconnect 2 3 8 re ing too J Baker Cor posite plug

After making up plug assy. attempt to pull it up inside lubricator and partailly set plug because ot go le of 4 1 16' Flange Lay down baker setting tool and partailly set plug then flange back up to well.

Report Start Date: 3/8/2013

PJSM to pick up gun assy. Discuss explosive, pinch points, heavy lifts SWA , emergency muster, TIF

Pick up Halliburton BHA pick up. Coil connector, BPV,Universal Disconnect, X-O Sub, 5 ea 60 deg phase 6 spf guns

Perforate Stage. 13 Stop and perforate 9871,9813,9755,9697,9639. Fire guns with 3500 psi o C then pressure bleed off as we move up hole

Spot down 7 1/2% HCL Spear head acid across then pull up above acid and bull head in perfs. ressure break back at 1 bpm 2740 psi then f ll to 1 /2 bpm at 2200 psi.

ISIP 1,449 psi. , Prime up , Pressure Test , Good Test Pumped 4 500 gals 2% HeFe HcL , Worked rate up to 80 bpm @ 4 212 psi Frac Stage 11 , Flushed to Top Perf.

Max rate	81.8	bpm	
Avg rate		80.4	bpm
Max pressure	6197	psi	
Avg pressure	4747	psi	
Max prop conc	2.4	ppg	
Prop Pumped	264068	lb	
100 Mesh	55008	lb	
White 40/70	209060	lb	
Gel Pumped	500	lb	
Treated Water	0	gal	
AquaStimUR	57658	gal	
WaterFrac R(15)		19735	gal
7.5% HeFe	7500	gal	
ISIP	2124	psi	
5 min	1549	psi	
10 min	0	psi	
15 min	0	psi	
Breakdown	4872	psi	
Load to Recover	274345	gal	

Total water to recover from entire frac 81,436 bbls.

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Drill out plugs at 9990 29 minutes to cut thru it, CT pressure 3150 psi return rate WH pressure 750 psi Pump rate 3 bpm return rate 4 bpi pumping .5gal Clay Web 1000 gal.and 10 bbl Brazan sand P'll after each plug. Drill out plug @10200' 8 minutes to cut thru It CT pressure 3150 psi return rate WH pressure 750 p: i Pump rate 3 bpm return rate 4 bpm pumping .5gal Clay Web/1000 gal.and 10 bbl Brazan sand Pilli after each plug,Drill out plug @ 1049(in 13 ninutes to cut thru it, CT pressure 3150 psi return rate WH pressure 750 psi Pump rate 3 bpm return rate 4 bpm pumpi g .5gal Clay Web 1000 ga and 0 I 3razan sand Pill after each plug.,When 10 bbl pill hits bottom Spot 20 bbl Brazan sand Pill as we make short trip to 8820 . Then GIH and dr ll out plug at ' 0 minutes to cu thru it, CT pressure 3150 psi return rate WH pressure 750 psi Pump rate 3 bpm return rate 4 bpm pumping .5gal Clay Web 1000 gal and 10 bbl Brazan sand Pill after each plug.'Drill out plug 11070 10 minutes to cut thru it CT pressure 3150 psi return rate WH pressure 750 psi Pump rate 3 bpm re'u n 'e 4 bpm pumping .5gal Clay Web/1000 gal.and 10 bbl Brazan sand Pill after each plug 11360 11 minutes to cut thru it, CT pressure 3150 ps ret rn : WH pressure 750 psi Pump rate 3 bpm return rate 4 bpm pumping .5gal Clay Web/1000 gal and 10 bbl Brazan sand Pi lll after each plug, continue in ho e nd tag # plug at 11653' . Spot 20 bbl Brazan sand sweep pill and POOH

POOH with Baker drill out assy.Bump up with tools. N/D from well head Inspect Baker BHA N/U to wellhe d Secure well f 'ght

Report Sta Date: 3/12/2013

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Test lurbricator to 4500 psi. WH press. 800 psi RIH with Baker Drill out assy to drill out plug # 7,8,9,10,11,12 T rolling pumps holding 800 ps on WH

Drill out plugs

Plug # 7 @ 11653'
Time to D/O 10 min
CT pressure 3250 psi
WH Pressure 790 ps
Pump Rate 3 bpm
Return Rate 4 bpm
Sweep pill 10 bb Brazan sand pill

Plug # 8 @ 11940
Time to D/O 15 min
CT pressure 3250 ps
WH Pressure 790 psi
Pump Rate 3 bpm
Return Rate 4 bpm
Sweep pill 10 bbl.Brazan sa d pil

Plug # 9 @ 11940'
Time to D/O 7 min.
CT pressure 3128 psi
WH Pressure 745 psi
Pump Rate 3 bpm
Return Rate 4 bpm
Sweep pill 10 bbl.Brazan sand pill

Tag Plug # 10 @ 12520'
Send 20 bbl Brazan sand pill and Short trip to 8820'

RIH

Plug # 10 @ 12520'
Time to D/O 9 min.
CT pressure 3150 psi
WH Pressure 720 psi
Pump Rate 3 bpm
Return Rate 4 bpm
Sweep pill 10 bbl.Brazan sand pill

Plug # 11 @ 12810'
Time to D/O 14 min.
CT pressure 3250 psi
WH Pressure 710 psi
Pump Rate 3 bpm
Return Rate 4 bpm
Sweep pill 10 bbl.Brazan sand pill

Plug # 12 @ 13090'
Time to D/O 11 min.
CT pressure 3200 psi
WH Pressure 650 psi
Pump Rate 3 bpm
Return Rate 4 bpm
Sweep pill 10 bbl.Brazan sand p'll

Tag F/C at 13379'
CT pressure 3350 psi
WH Pressure 590 psi
Pump Rate 3 bpm
Return Rate 4 bpm
Sweep pill 20 bbl Brazan sand pill

Pull out of hole circulating at 3 bpm down coil taking 4 bpm returns up csg Coil p re 3350 psi WH pressure 590 psi P/U wt 25 K
Lay down Baker BHA and nipple back up to well . Blow down Coil tubing with nitro n.

Report Start Date: 3/13/2013

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PJSM for R/U of testing and flow back equiptment. Discuss JSA, TIF, Tennent # 3 Ensure safety devices are in place and working Discussed the operation and means of mitigating hazzards of work ng around moving equiptment heavy lifts

Report Start Date: 3/14 2013

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PJSM with WT well testers petro Ta kad about TIF,SWA,JSA, Emergancy plans, Muster Point. Spill plans Pressure, and flow testing well
Check Pressure; SICP 800 Ps' Open well up at 9am on 8/64th Pos Choke Flow testing well with 24Hr supervision.

5Pm Reading:

WHP----------775 psi
WHT----------76 F
CHOKE--------8/64' positive
MCF/D--------0 Mcf/D
BWPH---------- 10Bbls
BWPD---------240 Bbls
BOPH----------0 Bbls
BOPD---------- 0 Bbls
TWR----------88 Bbls
TOR----------0 Bbls
LTR----------81436 Bbls
SAND---------- N/A
Chlorides----N/A ppm

Change choke from 8/64th to 10/64th Continue flow testing well with 24hr supervision

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Flow testing well change choke from 10/64th to 12/64th

Change Choke to 16/64th pos
Reading at 6PM

WHP--
WHT--
CHOK ---------- " iosit ve
MCF/E /
BWPH ---------- Is
BWPE Is
BOPH
BOPD
TWR-- Is
TOR --0 Bbls
LTR- ---80,727 Bbls
Chlorides 51,233 ppm

Report Start Date: 3 16 2013

Flow testing well on 16 64 Choke

Flow testing well on 20/64 Choke

Reading at 6PM
Changed choke to 20/64 at 9am
WHP---------560 psi
WHT----------90F
CHOKE--------20/64" positive
MCF/D--------0 Mcf/D
BWPH---------- 60 Bbls
BWPD---------- 669 Bbls
BOPH----------0 Bbls
BOPD---------- 0 Bbls
TWR---------- 1926 Bbls
TOR----------0 Bbls
LTR----------79,510 Bbls
Chlorides---- 59,497 ppm
Sand: light
Hauled 4 loads to Flow Back SWD

Getting trace of oil .

Flow well on 22/64 choke

Reading at 6PM
Changed choke to 22/64 at 7am
WHP--------650 psi
WHT----------84F
CHOKE--------22/64 posit ve
MCF/D--------0 Mcf/D
BWPH---------- 56 Bbls
BWPD---------- 693 Bbls
BOPH--------- 0 Bbls
BOPD---------- 0 Bbls
TWR---------- 3257 Bbls
TOR----------0 Bbls
LTR----------78,179 Bbls
Chlorides---- 59,497 ppm
Sand: light
Hauled 5 loads to SWD

Flow well on 22/64 choke

Flow well on 24/64 choke

Go to sperator and start 3 phasing , sperating water, oil and flaring gas

Continue flowing thru separator on 26/64' choke, flaring gas