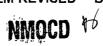
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UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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.					Lease Serial No. NMSF078051 If Indian, Allottee or Tribe Name		
							SUBMIT IN TRIPLICATE - Other instructions on reverse side.
Type of Well Oil Well			8. Well Name and No. MUDGE LS 22				
2. Name of Operator	LAVA 9. API Well No.						
BP AMERICA PRODUCTION CO. E-Mail: hlavacl@bp.com			N- (1-1		30-045-11057-00-S1		
3a. Address HOUSTON, TX 77253	3b. Phone No. (include area code) Ph: 281-366-4081			10. Field and Pool, or Exploratory BASIN DAKOTA			
4. Location of Well (Footage, Sec., 7)			11. County or Parish, and State			
Sec 4 T31N R11W SWNE 18 36.92886 N Lat, 107.99107 W	•			SAN JUAN COUNTY, NM			
12. CHECK APPI	ROPRIATE BOX(ES) TO	INDICATI	E NATURE OF 1	NOTICE, REI	PORT, OR OTHER	DATA	
TYPE OF SUBMISSION	TYPE OF ACTION						
Notice of Intent ✓ Subsequent Report	Acidize Alter Casing	_	cture Treat	☐ Reclama		□ Water Shut-Off □ Well Integrity	
Final Abandonment Notice	☐ Casing Repair ☐ Change Plans	_	w Construction g and Abandon	Recompl		□ Other	
T mai Abandonment Notice	Convert to Injection	_	g Back	_	☐ Temporarily Abandon ☐ Water Disposal		
13. Describe Proposed or Completed Ope If the proposal is to deepen directions Attach the Bond under which the wor following completion of the involved testing has been completed. Final Abdetermined that the site is ready for fith above mentioned well has linactive well list. The above mentioned mentioned well has linactive well list.	ally or recomplete horizontally, it will be performed or provide operations. If the operation restandonment Notices shall be file and inspection.)	give subsurface the Bond No. o sults in a multip ed only after all since Feb. 2	e locations and measin file with BLM/BIA le completion or recorrequirements, include 009 and is on the	ured and true ver A. Required subsompletion in a ne ding reclamation, e Feb. 2010	tical depths of all pertin equent reports shall be w interval, a Form 316	ent markers and zones. filed within 30 days 0-4 shall be filed once	
Cement is estimated on the 5	1/2" to be around 3000' (co	ement based	d on 70% efficien	ncy)	***	t destace	
BP request permission to P&A the entire wellbore per the attached			lugging procedure.			RCVD FEB 17'10 OIL CONS. DIV.	
					- -		
		H ₂	S POTENTIAL	EXIST	DIS	. T	
14. I hereby certify that the foregoing is	true and correct. Electronic Submission #8 For BP AMERICA I	PRODUCTIO	N ČO., sent to the	Farmington	•		
Name (Printed/Typed) CHERRY HLAVA			Title REGULATORY ANALYST				
Signature (Electronic St	Date 02/10/2010						
	THIS SPACE FO	R FEDERA	L OR STATE	OFFICE USI			
Approved By STEPHEN MASON			TitlePETROLEUM ENGINEER		Date 02/12/20		
Conditions of approval, if any, are attached. Approval of this notice does not we ertify that the applicant holds legal or equitable title to those rights in the subjection which would entitle the applicant to conduct operations thereon.			Office Farmington				

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.



MUDGE LS 22 – DK PxA Procedure (Version 1)

General Information:

Formation:

DK

Job Objective:

Date:

Plug and Abandon

Project #:

Engineer:

Anne Hansford Production Contact: Rocky Deromedi **p.** 281.366.8691 **p.** 505.326.9471 c. 713-540-3386

1/28/2010

Optimizer:

Mike Mcmahen

p. 505.326.9231

c. 505 486 0942

Backup Engineer:

Well Information:

Production Data:

API Number: 30-045-11057 **BP WI**: 50%

Casing Pressure: 0 psi (was 175 psi)

Tubing Pressure: 0 psi (was 175 psi)

Run #: 44

Line Pressure: 175 psi

Surface Location: Sec. 4, T31N, R11W

Pre-rig Gas Rate: 0 MCFD

Meter Number: 72924

Anticipated Uplift:

Water Rate:

Well FLAC:

CO2 (%): 0.79-2.2%

Cost Center:

H2S (PPM): N/A

Lease FLAC:

Compressed (Y/N): N

Gas BTU: 1154

Restrictions: N/A Regulatory Agency:

Artificial Lift Type: Plunger (see details)

Basic Job Procedure:

- 1. POOH with 2 3/8" tubing.
- 2. Set CIBP @ 7254'
- 3. Run USIT Log to determine TOC of 5-1/2" casing and where to cut- contact engineer for remedial work
- 4. Run USIT log on 7-5/8" casing to determine if remedial work needs to occur contact engineer
- 5. Continue plugging program uphole will be determined on location after logs.
- 6. Pxa entire wellbore

Safety and Operational Details:

ALL work shall comply with DWOP E&P Defined Operating Practice.

Don't know where TOC is so don't know exactly how we will plug the entire wellbore.

Should not have any plunger or plunger equipment, but not able to tag to bottom. Suspected hole in casing due to high fluid level - possibly around 1900', just due to not being able to swab below 1900', but not sure where the hole.

No F or X-nipple in tubing string. Tubing string is from 1960.

Well History:

The Mudge LS 22 - DK was completed in 1960. The well has had names of Mudge No 7 and Mudge 22.

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- Perform pre-rig site inspection, size of location, gas taps, other wells, other operators, running equipment, wetlands, wash, H2S barriers if needed for equipment. Landowner issues, buried lines in pits, raptor nesting, critical location, check anchors. Check ID wellhead, determine if equipment is acceptable or obsolete and replace if necessary, if digging is required have One Call made 48 hours. Follow ground disturbance policy.
- 2. Perform second site visit, checking anchors and barriers if needed. Ensure lines are marked so that they clearly designate pit locations. Discuss and turnover handover sheet with someone from operations team and wells team. LOTO all necessary equipment including but not limited to: meter run, automation, separator, and water line.

Rig Procedure:

- 3. Notify NMOCD 24 hours prior to performing the work.
- 4. Hold pre-job safety meeting and discuss JSA with everyone on location. JSA should cover: heavy lifts, pinch points, location hazards, pressure hazards, proper PPE and 8 golden rules of safety/IFF. Make sure everyone has preformed their LOTO and knows they have the right to stop the job.
- 5. Check and record casing pressure, intermediate, and Bradenhead pressures. Record all pressures into DIMS. Notify engineer if Bradenhead pressures exist. Check gas H2S content and treat if the concentration is > or equal to 10 ppm.
- 6. MIRU workover rig.
- 7. Insure double casing valves are installed. Spot and lay 3" line and tank to blow down well, record pressures while blowing well down if possible.
- 8. Move in Wireline unit, equipment and crew. Be sure to fill out necessary work orders. Wireline must perform LOTO and JSA. RU unit with a lubricator and BOP. Pressure test lubricator and BOP to 250psi for 5 min and 700psi full test. Chart results and record passing test in DIMS.
- 9. Two barriers will need to set in order to break containment (Plugs in downhole profiles, CW plugs with triple slip stop, or Plug in profile). Each time the lubricated connection is broken, it will need to be pressure tested for a quick 5 min test and document in DIMS. Contact engineering if these barriers cannot be used. If wellhead has profile for Back Pressure valve, rig up High Tech, pressure test lubricator and equipment to set two-way check in wellhead profile. Test will need to be charted and recorded in DIMS.
- 10. Blow down backside to flow back tank.
- 11. Nipple down Wellhead. NU BOPs and diversion spool with 3" outlets and 3" pipe to the flow back tank. Pressure test BOPs. Monitor flowing casing pressure with gauge (with casing flowing to blow tank) throughout workover. Remove wellhead back pressure valve if used.
- 12. Pull tubing hanger and shut pipe rams and install stripping rubber.
- 13. POOH with 2-3/8" J-55 4.7#/ft production tubing currently set @ 7296'.
- 14. RIH with 5-1/2" CIBP and set at **7254**' and load hole with fluid and pressure test **5-1/2**" casing. If no fluid or pressure loss is apparent, RIH with scraper to ensure logging tool does not get stuck and run **USIT**. If fluid loss, TIH with scraper and run **USIT** and contact engineer for remedial procedure. (the operator may set a cast iron bridge plug within 100 feet of uppermost perforations or production casing shoe load the casing with inert fluid.

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and pressure test to 500 psi surface pressure with a pressure drop of not more than 10 percent over a 30 minute period). Cement is estimated on the 5-1/2" to PERHAPS be around 3000' (based on 70% efficiency and a lower cement type, since none is noted in sundries.) If TOC is around 3000', then follow proposed plugging plan, if not, then STOP and contact engineer and BLM.

- a. RIH and mix correct batch of G-Class cement. Spot a cement plug from **7254**' (top of CIBP) **to 6377**' **(877' plug).** POOH. WOC. This should place cement across the DK and Gallup formations.
 - i. Capacity of 5-1/2" casing: 0.0233 bbl/ft
 - ii. 98 sxs of cement of Class G
- b. RIH and set balanced plug at @ 4428' up to 4290' to cover the Mesaverde formation. POOH and WOC.
- c. Since TOC may only be to 3000' in 5-1/2" casing, will need to rig up e-line for perforating to cover Fruitland and Pc formations.
- 7 7 Caston stor 3035 2935
 - d. RIH c-line and equalize and pressure test lubricator

e. RIH with perforating gun and shoot 4 shots/ft @ 2845', (but need results of USIT).

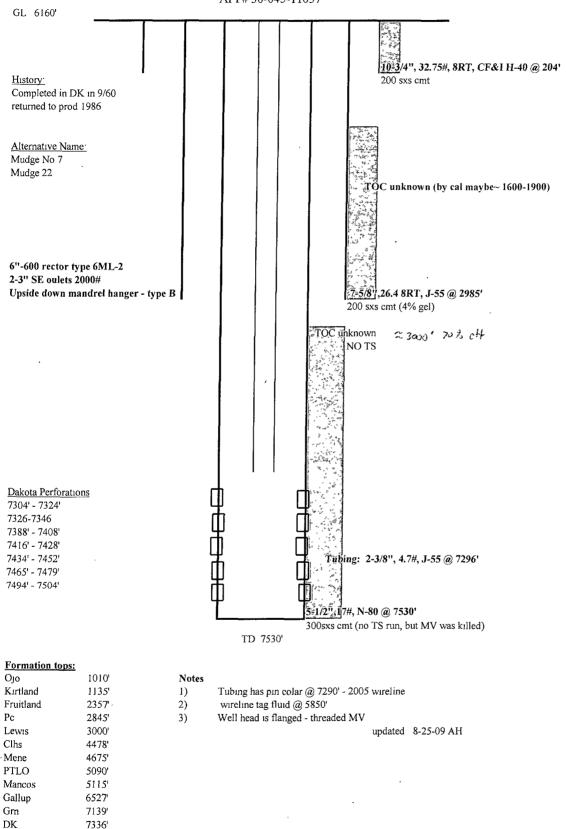
Attempt to establish circulation up annulus to ensure holes are open. If no circulation, attempt to re-perf tubing.

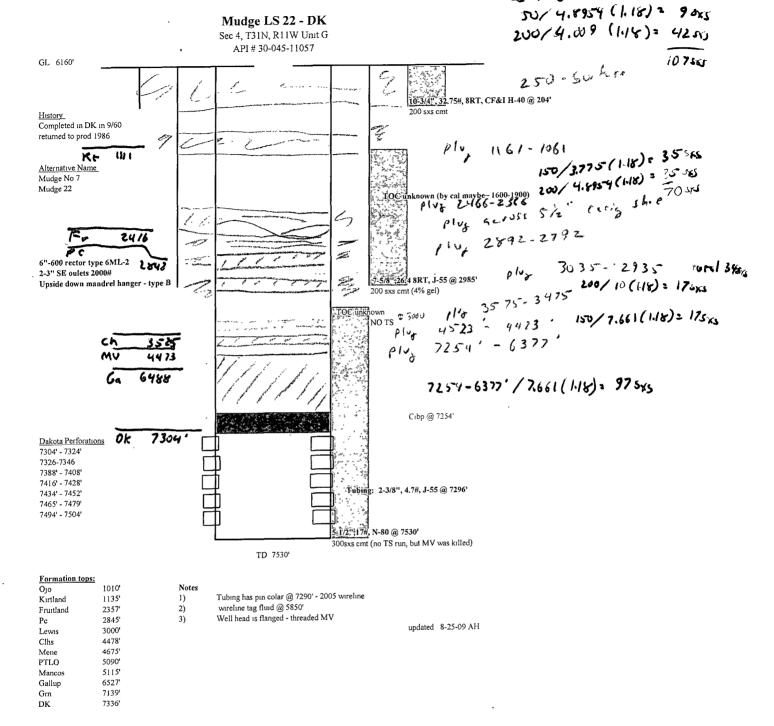
2842

- f. RIH and set cement retainer at 2795'. Sting into retainer and pump G-class (Yield 1.15 cu ft/sx) cement from 2795' to 2595' in annulus. Pump internal plug from 2795' to 2595' inside casing. POOH and WOC. This should cover the PC formation. 2792 2692
- 15. To cover the Fruitland formation, results from the USIT will be used to determine casing is free to cut to access 7-5/8" casing, to run USIT on 7-5/8" casing to determine remedial procedure. I would like to set a CIBP in 7-5/8" @ ~ 2307" (based on estimated TOC in 7-5/8" casing to be 1600-1900' from a 70% efficiency and low yield cement), after cutting the 5-1/2" casing between an estimated 2595 to 2495. Then place a 150' plug from 2307" to 2466-2366 2457' to cover Fruitland coal formation. Based on USIT results that will be run in the 7-5/8" casing, remedial work over the Kirtland/Ojo will determine with regulatory agency and engineer on location. Place a common place of the first that will be run in the 7-5/8" casing at 250'. Establish circulation from 250' to surface through 7-5/8"
- 16. RIH and perf 7-5/8" casing at **250**'. Establish circulation from **250**' to surface through 7-5/8' casing x 10-3/4" casing annulus. Pump and displace a **250**' plug from **250**' to surface both inside and outside of the 7-5/8" casing. This should put cement across surface casing show all the way to surface and in all annuli from **250' to surface**. POOH
- 17. Perform underground disturbance and hot work permits. Cut off tree. If cement cannot be seen on all annulus and casing strings remedial cementing will be required from surface.
- 18. Install well marker and identification plate per BLM requirements.
- 19. RD and release all equipment. Remove all LOTO equipment.
- 20. Ensure all reports are loaded into DIMS. Print out summary of work and place in Well file. Notify Sherri Bradshaw (326-9260) of completed P&A and Cherry Hlava.

Mudge LS 22 - DK

Sec 4, T31N, R11W Unit G API # 30-045-11057





250/3.775 (nV5) = 56-400

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT FARMINGTON DISTRICT OFFICE

1235 LA PLATA HIGHWAY FARMINGTON, NEW MEXICO 87401

Attachment to notice of Intention to Abandon:

Re: Permanent Abandonment

Well: 22 Mudge LS

CONDITIONS OF APPROVAL

- 1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
- 2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 599-8907.
- 3. The following modifications to your plugging program are to be made:
- a) Place the Mesaverde plug from 4523' 4423'.
- b) Place a cement plug from 3575' 3475' to cover the Chacra.
- c) Place the 7 5/8" Casing Shoe plug from 3035' 3935' inside and if no cement in the annulus outside the 5 $\frac{1}{2}$ " casing.
- d) Place the Pictured Cliffs plug from 2892' 2792' inside and outside the 5 ½" casing.
- e) Place a 150' cement plug across the 5 ½" casing stub.
- f) Place the Fruitland plug from 2466' 2366' inside and outside the 5 $\frac{1}{2}$ " casing if the casing is cut off above the Fruitland.
- g) Place the Kirtland plug from 1161' 1061' inside and outside the 7 5/8" casing

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.